



#### **DEPARTMENT OF THE NAVY**

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN PORTSMOUTH, VIRGINIA, DETACHMENT ENVIRONMENTAL CHARLESTON 1999 NORTH HOBSON AVENUE, BUILDING 30 NORTH CHARLESTON, SOUTH CAROLINA 29405-2106

> IN REPLY REFER TO: Ser: 177

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#### **MEMORANDUM**

From: Director, Supervisor of Shipbuilding, Conversion and Repair, USN,

Portsmouth, Va., Environmental Detachment, Charleston, SC

(SPORTENVDETCHASN)

To: Southern Division Naval Facilities Engineering Command

(Archie Browder)

Subj: ASBESTOS SURVEY FINAL REPORT, Charleston Naval Base Housing

Ref: (a) Statement of Work for Engineering Services- Asbestos Survey, Charleston

Naval Base Housing

Encl: (1) Asbestos Survey Final Report, Charleston Naval Base Housing

1. As requested per reference (a), the Asbestos Survey Final Report for Charleston Naval Base Housing is provided for your review/action via enclosure (1). Points of contact concerning this report are Bruce Murray at (803) 743-6777, (ext.234) or Mark Moltzen at ext. 238.

F. R. Dearhart

### **ASBESTOS SURVEY**

### NAVAL HOUSING CHARLESTON NAVAL BASE CHARLESTON, SOUTH CAROLINA

Engineering Branch Head:	Date: 3/3/98
Asbestos Team Leader: Mallaltage	Date: 3/3/98
Prepared By:	Date: 3/2/48

### SURVEY PERFORMED BY: ENVIRONMENTAL DETACHMENT CHARLESTON

1899 NORTH HOBSON AVENUE NORTH CHARLESTON, SC 29405

### **CHARLESTON NAVAL BASE HOUSING**

# ASBESTOS INSPECTION REPORT

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152 TURNBULL AVE
1485 HOBSON AVER

1505 HOBSON AVE ......Q

HOUSING UNITS (street address) (TYPE 9 CONTINUED)	QUARTERS or BUILDING NO	١.
1565 HOBSON AVE	Р	
1599 HOBSON AVE	0	
TYPE HD-23 FLOOR PLAN:		
761 COMMISSARY ST	M-6	
775 COMMISSARY ST	M-7	
801 COMMISSARY ST	M-8	
804 MARINE AVE	M-5	
809 COMMISSARY ST	M-9	
1285 AVENUE G	EE	
1288 AVENUE H	FF	
1293 AVENUE G	DD	
1294 AVENUE H	GG	
1304 AVENUE H	НН	
1305 AVENUE G	CC	
1310 AVENUE H	n	
1311 AVENUE G	BB	
1345 AVENUE G	AA	
1350 AVENUE H	JJ	
1351 AVENUE G	LL	
1445 HOBSON AVE	X	
1455 HOBSON AVE	W	
1575 HOBSON AVE		
TYPE J FLOOR PLAN:		
1303 AVENUE H	769	
1309 AVENUE H	769	
1344 AVENUE G		
1352 AVENUE G	777	
1409 MANLEY AVE		
1415 MANLEY AVE		
1410 MANLEY AVE		
1414 MANLEY AVE		
1420 MANLEY AVE		
1424 MANLEY AVE		
142] MANLEY AVE	745	
1425 MANLEY AVE	745	
1431 MANLEY AVE	747	

QUARTERS or BUILDING NO.
747
705
719
717
706
700
701
712
708
765
765

IV. PERSONNEL QUALIFICATIONS ......SECTION IV.

#### I. EXECUTIVE SUMMARY

#### 1. <u>INTRODUCTION</u>

Asbestos Building Inspectors from Environmental Detachment, Charleston, SC conducted a survey to identify asbestos containing material (ACM) in the Naval Housing Units at Charleston Naval Base, Charleston, S.C. The survey was conducted from April 1997 through February 1998. Inspections were performed on 64 of the 86 housing units on Charleston Naval Base property. The results of the survey provide an inventory of ACM in these housing units. The remaining units were not inspected because they were occupied or did not have a lock box (a key to house not available). The Table of Contents lists all the units inspected. A list of the units not inspected is included in this executive summary.

All inspectors were certified by an EPA accredited training center under the Asbestos Hazard Emergency Response Act (AHERA), as Building Inspectors. All supervisors and inspectors are employees of Environmental Detachment Charleston. Copies of individual certificates are in the PERSONNEL QUALIFICATIONS section of this report.

Suspect ACM was identified and sampled in accordance with AHERA guidelines. Some materials suspected of being ACM were assumed to be ACM and not sampled. Assumed materials included floor tile, sheet flooring, and gasket material. Some materials were not safe to sample (e.g. electrical insulation), or sampling would have damaged the material and impaired the normal system operation/integrity (e.g. heating/ventilation/AC systems, furnace, boiler door and pipe gaskets).

Bulk samples were analyzed by the Environmental Detachment, Laboratory Division. Our Laboratory policy is to report asbestos at 1 percent or greater if any indication of asbestos is found. The Laboratory participates in the Navy's Asbestos

Identification Proficiency Testing Program. Polarized Light Microscopy (PLM) was used to analyze samples.

#### 2. FINDINGS SUMMARY

The BUILDING SUMMARIES and BUILDING SUMMARY TABLES provide a summary of the findings for the housing units surveyed.

#### 3. **RENOVATION/DEMOLITION**

The National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61 requires written notification to the Environmental Protection Agency/local Air Quality Management District at least ten working days prior to renovation or demolition of ACM in quantities of 260 linear feet, 160 square feet, 35 cubic feet, or greater, except in cases of emergencies. Contractors are advised to verify most current regulations prior to start of work.

#### 4. REPORT ORGANIZATION

Specific, detailed information on each inspected building is noted in the BUILDING SUMMARIES section of this report and includes the following:

- Building Summary: a narrative description of each building and the findings of this survey
- Building Summary Table: description of location, quantity, and condition of ACM in individual housing units
- Building drawings indicating ACM locations
- Asbestos Identification / Chain of Custody forms

Following the *BUILDING SUMMARIES*, is the section for *PERSONNEL QUALIFICATIONS*. Copies of individual Inspector's certificates are included here.

#### 5. DISCLAIMER

A comprehensive and thorough asbestos survey was conducted on these houses by certified and experienced Environmental Detachment Charleston inspectors. Every effort was made to identify all asbestos containing material (ACM) in the facility. Due to random sampling techniques mandated by EPA regulations, the possibility

exists that some ACM remains undetected. Also all sampling was performed in a non-destructive manner, as requested.

#### 6. ABATEMENT COST

Cost for abatement of ACM from each housing unit will be provided at a later date on an as needed basis.

#### 7. UNITS NOT INSPECTED

The following units were occupied or did not have a lock box installed and were not inspected:

	Address	Building #
1	96 NAVY WAY	i
2	98 NAVY WAY	Н
3	160 EVERGLADES DR	M
4	181 TURNBULL AVE	718
5	835 MARINE	M10
6	849 AVE F	760
7	850 SECOND ST	780
8	856 SECOND ST	780
9	857 MARINE	M11
10	875 MARINE	782
11	883 MARINE	781
12	895 AVE F	761
13	895 MARINE	781
14	1356 AVE H	KK
15	1430 MANLEY AVE	748 1 (2)
16	1434 MANLEY AVE	748
17	1501 MANLEY AVE	749
18	1502 MANLEY AVE	750
19	1507 MANLEY AVE	749
20	1508 MANLEY AVE	750
21	1521 MANLEY AVE	751
22	1527 MANLEY AVE	751

#### **GENERAL NOTES**

- Many sheetrock walls and ceilings have joint compound applied to seams and nail holes.
   In some cases this joint compound tested positive for asbestos. The walls and ceilings that have asbestos containing joint compound applied must be considered as ACM in their entirety, even though the sheetrock itself may be non-asbestos.

   NOTE: Flaking paint on these surfaces could expose asbestos.
- 2. Cloth-like wiring insulation in all houses is a suspected asbestos containing material. Sampling of this insulation should be performed prior to any disturbance.
- 3. Many houses contain oil-burning furnaces and boilers, which may contain suspected ACM such as gaskets, seals, and asbestos board, etc. The condition and quantity of these materials could not be determined without disassembly. Sampling of these materials should be performed prior to any disturbance.
- 4. Convenience samples were taken of various roofing materials. All samples were negative. However sufficient samples could not be obtained of all roofing material to rule out roofing material as non-asbestos.
- 5. The assessments of piping TSI and HVAC duct TSI are for readily accessible portions of the piping and ductwork only. It should be noted that much of these systems could exist in wall interiors and between floors and ceilings of adjoining floors. This report does not assess the amount and condition of TSI in these inaccessible areas but they should be considered prior to any renovation or demolition.
- Most of the sheet vinyl flooring found in these houses consists of multiple layers of flooring. Most of the flooring had at least one layer that was ACM. Also some sheet vinyl flooring was placed over floor tiles. In most cases these floor tiles are either assumed or confirmed ACM.
- 7. Items listed in the Building Summaries, as "CONFIRMED ACM" were proven to contain greater than one percent asbestos through bulk sampling and laboratory analysis.
- Items listed in the Building Summaries as "ASSUMED ACM" are assumed to be greater than one percent asbestos. Assumptions are based on past experience with similar materials.
- Items listed in the Building Summaries as "ASBESTOS FREE" are suspected asbestos
  containing materials that were found not to contain greater than one percent asbestos
  through bulk sampling and laboratory analysis.
- 10. Building Summary Tables only list CONFIRMED ACM and ASSUMED ACM.

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#### **GENERAL NOTES**

- 11. Definitions Of AHERA CATEGORIES (1 through 8) as used in building summary tables:
  - 1. Damaged or Significantly Damaged friable thermal system insulation.
  - 2. Damaged friable surfacing ACM.
  - 3. Significantly Damaged friable surfacing ACM.
  - 4. Damaged or Significantly Damaged friable miscellaneous ACM.
  - 5. ACM with potential for significant damage.
  - 6. ACM with potential for damage.
  - 7. Any remaining friable ACM or friable suspected ACM.
  - 8. Non-friable ACM.
- 12. Explanation of "CONDITION" as used in BUILDING SUMMARY TABLES:

#### SURFACING and MISCELLANEOUS MATERIAL

- <u>SIGNIFICANTLY DAMAGED</u> (material with one or more of the following characteristics)
  - (a) The surface is crumbling or blistered over at least one tenth of the surface if the damage is evenly distributed (one quarter if the damage is localized).
  - (b) One tenth (one quarter, if localized) of material hanging from the surface, deteriorated, or showing adhesive failure.
  - (c) Water stains, gouges, or mars over at least one tenth of the surface if the damage is evenly distributed (one quarter if the damage is localized).
- DAMAGED (material with the following characteristics)
  - (a) The surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over less than one tenth of the surface if the damage is evenly distributed (one quarter if the damage is localized).

#### GOOD CONDITION

(a) Material with no visible damage or deterioration, or showing only very limited damage or deterioration.

#### **GENERAL NOTES**

#### THERMAL SYSTEM INSULATION

- <u>SIGNIFICANTLY DAMAGED</u> (material with one or more of the following characteristics)
  - (a) Missing jackets on at least one tenth of the piping or equipment.
  - (b) Crushed or heavily gouged or punctured insulation on at least one tenth of pipe, duct, etc., if the damage is evenly distributed (one quarter if the damage is localized).
- <u>DAMAGED</u> (material with one or more of the following characteristics)
  - (a) A few water stains on less than one tenth of insulation with missing jackets.
  - (b) Crushed insulation or water stains, gouges, punctures, or mars on up to one tenth of the insulation if the damage is evenly distributed (or up to one quarter if the damage is localized).

#### GOOD CONDITION

(a) Material with no visible damage or deterioration, or showing only very limited damage or deterioration.

#### II. BUILDING SUMMARIES

The following pages report observations noted and suggest actions required as a result of an Asbestos survey conducted by Environmental Detachment Charleston between April 1997 and February 1998. Sixty-four housing units at Charleston Naval Base were inspected for the presence of asbestos containing material (ACM). This section provides *Descriptions*, *Findings*, and *Recommended Actions for each house inspected*.

Assessment of all ACM was done in accordance with Chapter 40, Code of Federal Regulations, Part 763, Subpart E, "ASBESTOS HAZARD EMERGENCY RESPONSE ACT (AHERA)".

A total of 615 samples of suspected ACM were taken and analyzed by certified Environmental Detachment Charleston personnel. Due to a non-destructive sampling policy, samples were taken from accessible materials only.

#### ASBESTOS SURVEY QUARTERS "F", 99 NAVY WAY CHARLESTON NAVAL COMPLEX CHARLESTON, S.C.

#### 1. **DESCRIPTION**

Approximate date of construction for Quarters F is 1861. A two-story addition was added to the rear of the house sometime between 1900 and 1928. The house has 5526 square feet. The house is in good condition. Interior walls are plaster and sheetrock, in many rooms it appears sheetrock may have been placed over existing plaster. Exterior siding is wood and the roof is metal with an applied coating, no roofing samples were obtained. A new HVAC system has been installed with fiberglass insulation.

#### 2. FINDINGS

Twelve homogenous sampling materials were identified as suspected Asbestos Containing Material (ACM). Of the twelve, 2 were confirmed to contain asbestos, 2 were assumed to contain asbestos, and 8 were found to be asbestos free.

#### **CONFIRMED ACM**

- SOIL, located in crawl space, several loose pieces of plaster-like material and a few pieces of black felt paper (these may be remnants of old piping TSI that has since been removed)
- 2. EXTERIOR WINDOW GLAZING

#### ASSUMED ACM

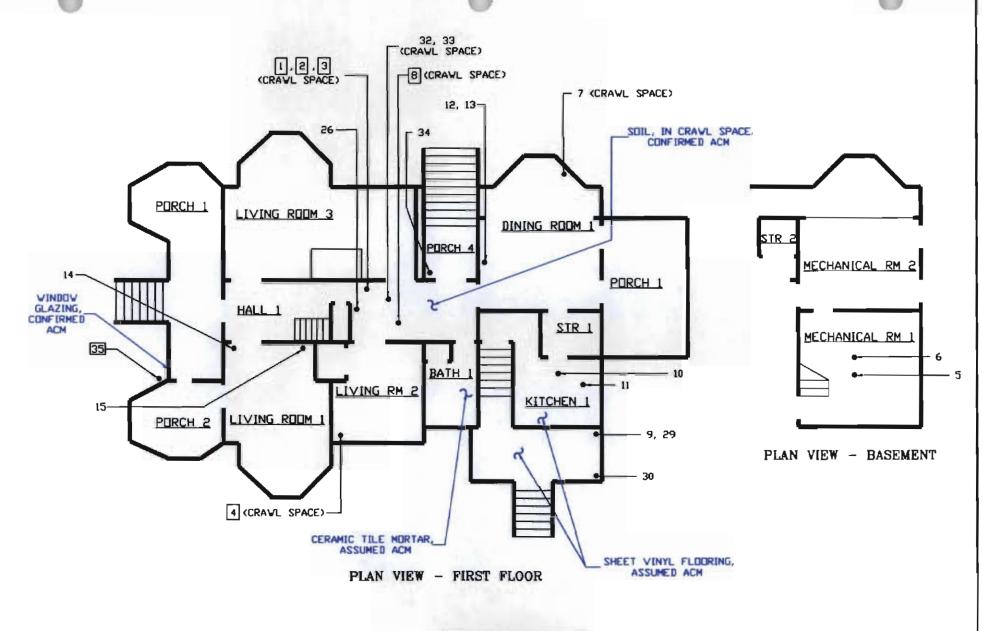
- 1. SHEET VINYL FLOORING, located in kitchen and storage room, this homogeneous group of flooring was confirmed ACM in other Charleston Naval housing units.
- 2. CERAMIC TILE MORTAR, in all bathrooms

#### ASBESTOS FREE

- 1. MORTAR, used in brickwork, in crawl space
- SHEETROCK w/ TAPE and JOINT COMPOUND, located in several rooms of house
- 3. PLASTER, located in several rooms of house
- 4. CAULKING, located in bathrooms
- 5. ATTIC INSULATION
- 6. WALLPAPER, located in bathrooms
- 7. VENT DUCT TSI MASTIC, located in crawl space / basement on HVAC duct
- 8. BROWN CEILING TILE, located in kitchen

### CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
ASSUMED	A	SHEET VINYL FLOORING, kitchen and storage	316 sq. ft.	8	N	G	0	O & M	This flooring was confirmed ACM in other housing units.
ASSUMED	A	MISC., CERAMIC TILE MORTAR, all bathrooms	577 sq. ft.	8	N	G	0	O&M	
99-NW-34 99-NW-35	N Y	MISC., EXTERIOR WINDOW GLAZING	*	*	*	*	*	*	assessment not required on exterior materials
99-NW-1 99-NW-2 99-NW-3 99-NW-4 99-NW-8	Y Y Y Y	SOIL, loose pieces of debris scattered throughout soil of crawl space	2160 sq ft	4	Y	D	100	Remove	



LEGEND

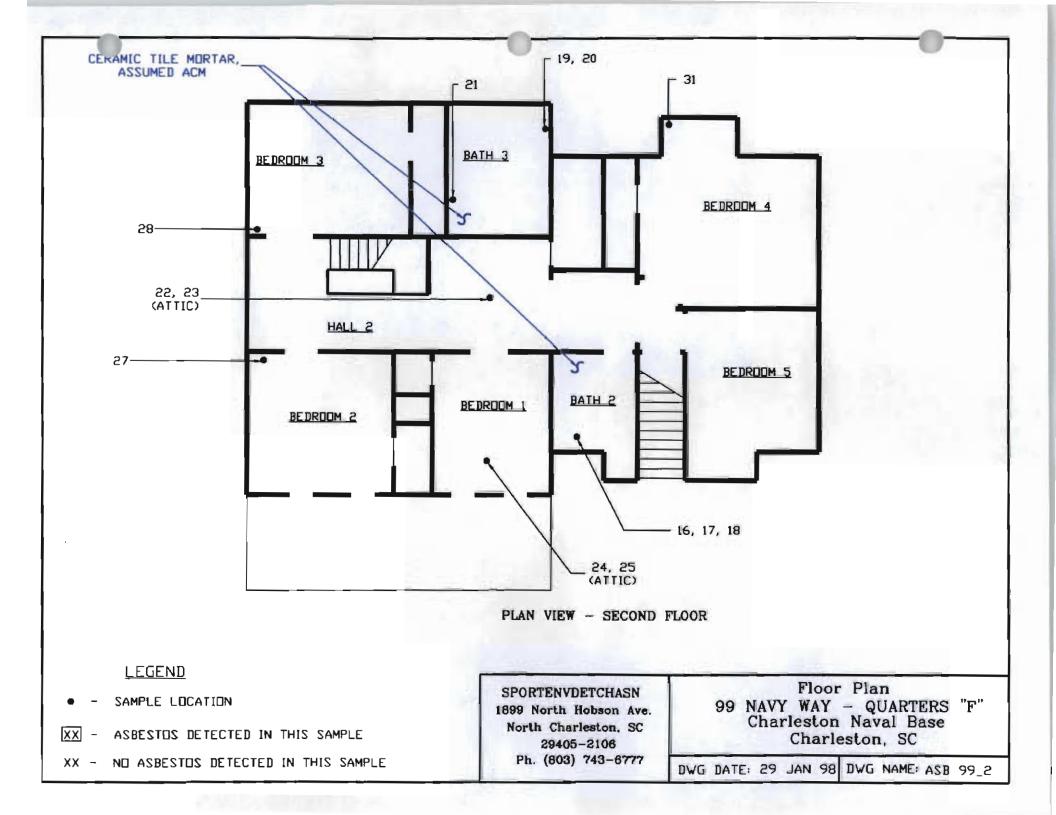
- SAMPLE LOCATION

XX - ASBESTOS DETECTED IN THIS SAMPLE

XX - NO ASBESTOS DETECTED IN THIS SAMPLE

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor Plan
99 NAVY WAY - QUARTERS "F"
Charleston Naval Base
Charleston, SC

DWG DATE: 29 JAN 98 DWG NAME ASB 99



#### 1899 North Hobson Avenue

		Remediation De	etachment Building 99 NAVY	WAY "F" Date !	-19/97
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99-104-1	(	LOOSE PIECES	, PLASTER OR MORTAR SCATTERED THROWN OUT)	CHRYSOTILE	Maz
99-NW -Z	CI	emui stacé Natic (Loose	, WHITE CHACKY FIBROUS , SCATTERLY THROUGHOUT)	CHRYSOTILE	WR
99.00 .3		EAWL SPACE SOIL		CHRYSOTILE	NA
79-NW - 4		,	, MORTAR-LIKE MAT'L	CHRYSOTILE	NAI
99-NW -5	1	RAWL SITCE VENT DUCT	GRAY PUTTY FROM	NONE	w
79-NW -6				NONE	wa
79 - WW -7		BRICK WORK		NONE	nor
79-NW-8		RAWL SPACE LACK FELT		CHRYSOTILE	nor
Analyst(s)  Analyst(s)  Results Logged	Lau	Date Date	12-97		

1899 North Hobson Avenue

NSPECTOR	BRUCE	MURRAY	_ DHEC LICENSE NO	21687	EXPIRATION DATE	8/21/47
NSPECTOR _		<u>-</u>		·	EXPIRATION DATE	
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79-NW-10	_ ′	RITCHEN, BLOWN (	KIUNG		NONE	inst
99-NW-i1		1			NONE	wat
79-NW-12		DIN/46 RM PLAST			NONE	IN
99-NW-13	-	<u> </u>		$\downarrow$	NONE	M
99-NW-14		PLASTER	LIVING ROOM #/		NONE	war
99-NW 15	_	1			NONE	USR
99-NN-16		PARMOUN #	2 		NONE	M
i .		)				•
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1899 North Hobson Avenue

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II ' I	No.	Location/Description	Asbestos Type (or None)	Analyst Initials
99-NW-17 -	BATHROCM SHEETHERIK		NONE	ran
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99-22-19	BATHLOOM WALL PAR		NONE	nor
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99-NW-23 -	$ \downarrow$ $\downarrow$		HONE	MY
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Analyst(s)	Date_	5-125)		

1899 North Hobson Avenue

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#### 1899 North Hobson Avenue

#### North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION

DENTIFICATION ""

QUARTEES F

Dividing 99 Marie (144)

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		ing. & Remediation LICENSED INSP		Building YY NA	109 WX9	Date: 1-22-93
INSPECTOR	Beve	Musety	DHEC LICEN	ISE NO <u>2168 7</u>	EXPIRATION	DATE P 20-98
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#### 1899 North Hobson Avenue

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Relinquished by	En S/ Cy Date 1.23-98		
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Sample OS No No	Location/Description	Asbestos Type (or None)	Anaiyst Initiais
	SHEETROCK WITHE & JOINT COMPOUND,		
79-NW-29	CORED SAMPLE FROM WALL CORNER	NONe	WEM
77-24-30		NoNe	MEM
99-NW-31	SHEETROCK WITAPE & JOINT COMPOUND, CORED SAMPLE, SEAMED FOINT	NONE	WEN
79-12-32	FILLER MORTAN FACE BETWEEN FLOURS	NoNe	WEN
79-N J-35	BRILK MORTH FROM BRICK PILINGS	NONe	WEN
99-NW-34	EXIERIOR WINDOW GLAZING	NoNe	WEM
97-N 4 <b>3</b> 5		CHRYSOTILE	
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# ASBESTOS SURVEY 100 NAVY WAY, QUARTERS "A" CHARLESTON NAVAL COMPLEX CHARLESTON, S.C.

#### 1. **DESCRIPTION**:

Unit is 7952 square feet. Built in 1905. Exterior is wood siding. Roofing material is metal roofing and rolled roofing. House is in good condition but there are signs of neglect such as flaking paint and deteriorating TSI.

#### 2. FINDINGS:

Nineteen homogeneous materials were identified as possible Asbestos Containing Material (ACM). Of the 19 homogeneous materials, 6 were confirmed to contain asbestos, 1 was assumed to contain asbestos, and 12 were found to be asbestos free.

#### CONFIRMED ACM

- 1. PUTTY, used as packing between piping and wall in mechanical room
- 2. PIPING TSI, in mechanical room
- 3. PIPING TSI, in both crawl spaces
- HVAC DUCT TSI, in both crawl spaces, some TSI has been removed from this
  duct but large remnants are still in place
- SOIL, from crawl space, loose pieces of TSI scattered throughout both crawl spaces
- SHEET VINYL FLOORING and MASTIC, kitchen and adjacent storage room, bathroom # 2 and # 7

#### **ASSUMED ACM**

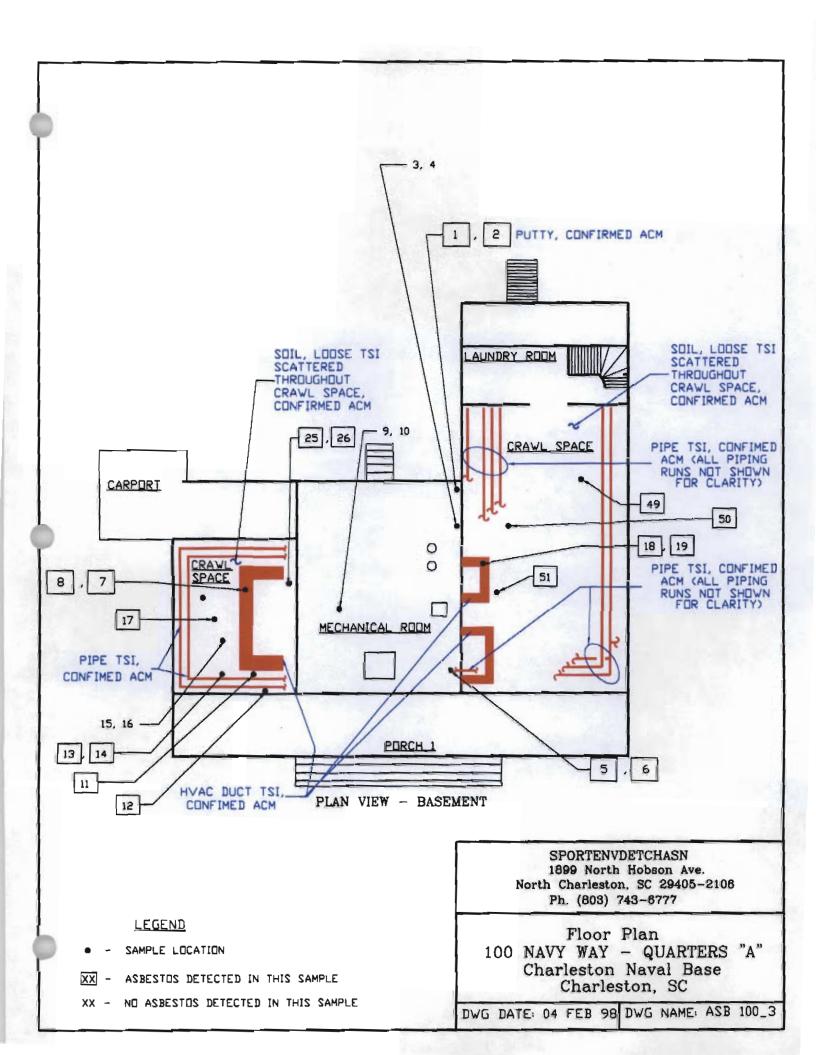
1. CERAMIC TILE MORTAR, bathrooms 3, 4, 5, and 6

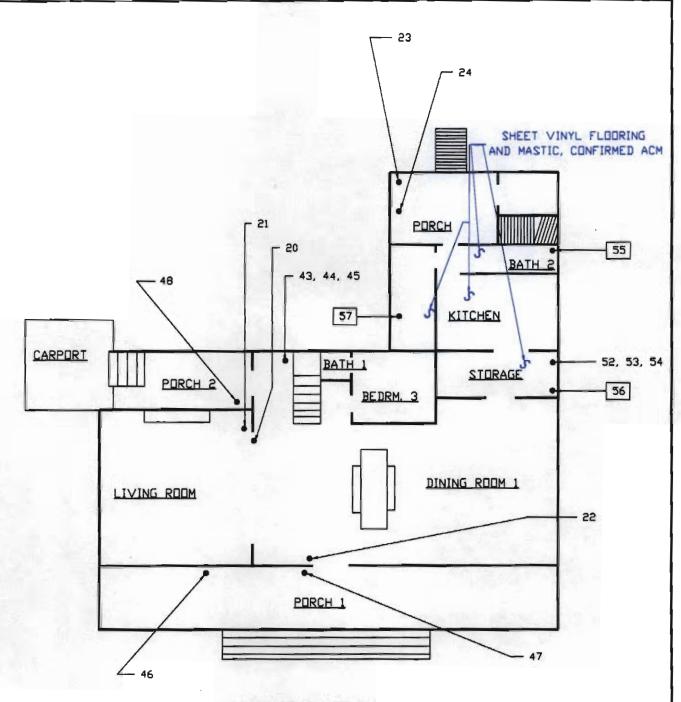
#### ASBESTOS FREE

- 1. MORTAR or PLASTER-LIKE MATERIAL, located in mechanical room between overhead joist (samples # 3 and #4)
- 2. FIREPROOF SHEATHING, in mechanical room on ceiling.
- 3. LOOSE PIECES OF DRYWALL / PLASTER, in crawl space.
- 4. DRYWALL / PLASTER, throughout house, walls and ceilings.
- 5. MASTIC, on outdoor carpet, back porch.
- 6. INSULATION, dark brown, in attic adjacent to bathroom #7
- 7. INSULATION, yellow, in storage #2
- 8. ROOFING FELT / TAR, obtained from 3<sup>rd</sup> floor, storage #4
- TILE WALLBOARD, bathroom #7
- 10. DECORATIVE PLASTER, in living room
- 11. WINDOW GLAZING
- 12. PIPE TSI, in kitchen storage room (samples # 52, 53, and 54)

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
100-NW-1 100-NW-2	Y	MISC., Putty / packing between piping and wall. Mach. Room / Basement	2 cubic ft.	4	Yes	SD	50	REMOVE	
100-NW-5 100-NW-6 100-NW-11 100-NW-12	Y Y Y Y	PIPING TSI, mechanical room and both crawl spaces	530 LF	I	Yes	SD	25	REMOVE	
100-NW-7 100-NW-8 100-NW-18 100-NW-19	Y Y Y Y	HVAC Duct TSI, in both crawl spaces	30 LF	l	Yes	SD	30	REMOVE	
100-NW-13 100-NW-14 100-NW-17 100-NW-25 100-NW-26 100-NW-49 100-NW-50 100-NW-51	Y Y Y Y Y Y	SOIL, loose pieces of TSI scattered throughout both crawl spaces	1482 sq. ft.	1	Yes	SD	100	REMOVE	
100-NW-55 100-NW-56 100-NW-57	Y Y Y	MISC., SHEET VINYL FLOORING, kitchen and storage, bathrooms # 2, and # 7	428 sq. ft.	6	YES, only where damaged	G	<1	REPAIR, O & M	flooring raised up and separating near sink in bathroom # 2
ASSUMED	A	MISC., CERAMIC TILE MORTAR, bathrooms 3, 4, 5, and 6	628 sq. ft.	8	NO	G	0	O & M	

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet





PLAN VIEW - FIRST FLOOR

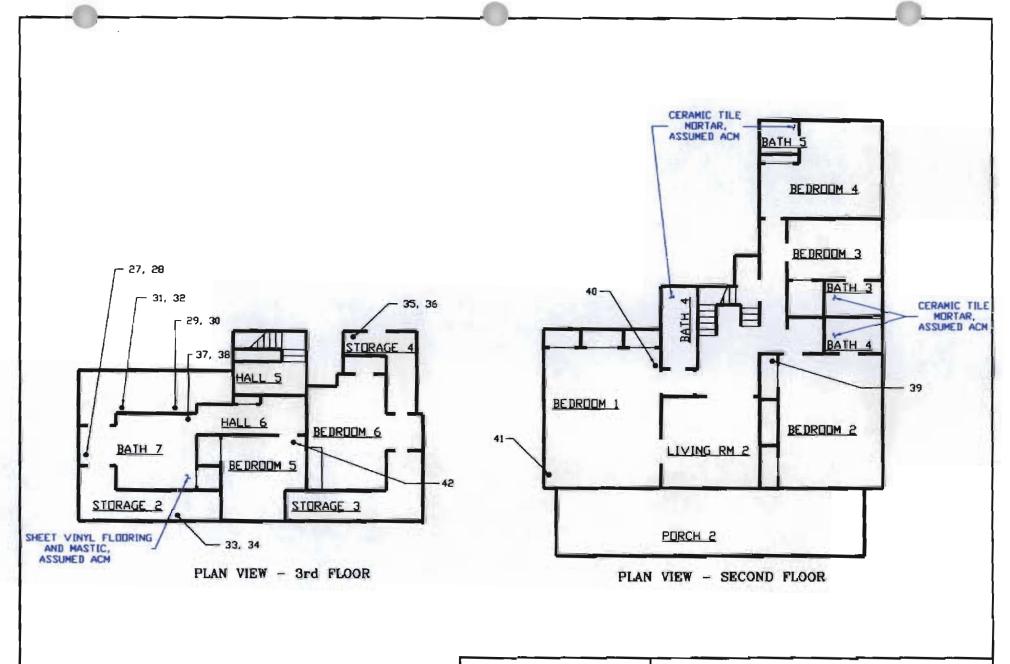
#### LEGEND

- SAMPLE LOCATION
- XX ASBESTOS DETECTED IN THIS SAMPLE
- XX NO ASBESTOS DETECTED IN THIS SAMPLE

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777

Floor Plan 100 NAVY WAY - QUARTERS "A" Charleston Naval Base Charleston, SC

DWG DATE: 04 FEB 98 DWG NAME: ASB 100\_1



#### <u>LEGEND</u>

- SAMPLE LUCATION
- XX ASBESTOS DETECTED IN THIS SAMPLE
- XX NO ASBESTOS DETECTED IN THIS SAMPLE

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor Plan 100 NAVY WAY - QUARTERS "A" Charleston Naval Base Charleston, SC

DWG DATE: 05 FEB 98 DWG NAME: ASB 100\_2

1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

		ng. & Remediation Detachment LICENSED INSPECTOR(S)	Building 100	NAVY WA	9 .4 Dai	e <u>5/8/97</u>
INSPECTOR	Bruce	Mucety DHECLIC	ENSE NO _2/6	<u>87</u> E	EXPIRATION DAT	E 8/21/97
		Lewis DHECLIC				. /
NOTIFY OF	RESULTS	NAME Rovce Charpia	PHONE NO 743	-6482 Ext 23	0	
Relinquished	to fina	J. Jak Date	5-8-97			
Reimquished	by Sans	2 Lever Date 17/	18/9.7	<del></del>		
Logged in by	1	Date	/			
	(IDENTIFI	CATION IS DETERMINED BY POLARI	ZED LIGHT MICROS	COPY AND DIS	PERSION STAINING)	
Sample No	OSH No	Location/Des	cription		Asbestos Type (or None)	Analyst Initials
100 NW-1	_	BASEMENT / MECH. ROO BETWEEN FIFING AND WA	,		HRYSOTILE	- nor
100 NW-2		1	$\downarrow$		tryso Tic	Ewat
0 0 0 S	_	BASEMENT/MICH ROOM MORTAR -LIKE MATERIAL	1, LOOSE GRE	ŀ	IONE	WAR
100 Nw-4	-	1		~	IONG	war
100 NW-5	_	PIPING TSI BASEMENT / MECH RO	<b>ب</b> درن	CH	HRYSOTILE	Λ
100 NW-6	-			CI	tryso71	HAC
100 NW-7	_	BASEMENT / MECH. ROS DOCT VENT TSI	/1	C	+RYSOTI	4 WE
100 NW-8	<i></i>			CI	trysotic	4 WA
Analyst(s)  Analyst(s)  Results Logge	W	Date	)		7	

#### 1899 North Hobson Avenue

		g. & Remediation Detachment Building 100 NA ICENSED INSPECTOR(S)	04 WAY "A" Date.	5/8/97
INSPECTOR	Bruce	MURRAY DHEC LICENSE NO 21687	EXPIRATION DATE_	42197
INSPECTOR	JAMi	S Lecuis DHEC LICENSE NO 2/686	EXPIRATION DATE _	3/24/07
NOTIFY OF I	RESULTS. 1	NAME Royce Charpia PHONE NO 743-6482	Ext. <del>230</del> 254	
Relinquished t	· Jum	1. July Date 5-8-97.		
Relinquished f	y Jane	Line Date 7/8/97		
Logged in by		Date		
<del></del>	(IDENTIFIC	CATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY A	ND DISPERSION STAINING)	<del>  </del>
Sample No	OSH No	Location/Description	Asbestos Type (or None)	Analyst Initials
100 NW-9	_	BASEMENT / MECH. ROOM FIREPROOF SHEATHING ON CEILING	NONE	war
100 NW-10	_	1	NONE	WAZ
100	~	TSI ON PIPING	CHRYSOTILL	not
100 NW-12	<b>-</b>		CHRYSOTILE	M
10C NW-13		CRAWL SPACE FROM MECH. ROCM, TSI, LOOSE, LYING ABRIET	CHRYSOTILE	M
100 NW-14			CHRYSOTICE	WAL
100 NW -15		DRYWALLPUSIER, LOOSE LYING ABRILT	NONE	ist
100 NW-16	(	DRYWALLPOSIER, LOOSE LYING ABRILT	NONE	up
Analyst(s)  Analyst(s)  Results Logger		Date		

1899 North Hobson Avenue

From: (Project) Envir. I SAMPLES TAKEN BY	Eng. & Remediation Detachment Building 100 NA	Date Date	5/8/97
INSPECTOR Brown	MIRRY DHECLICENSE NO 2/687	_ EXPIRATION DATE _	8/21/97
INSPECTOR JAM	es Lewis DHECLICENSE NO 21686	_ EXPIRATION DATE _	8/20/07
NOTIFY OF RESULTS	NAME ROVCE Chapte PHONE NO 743-6482 Ex	1. <del>23</del> 0 23 4	
Relinquished to	1 doubt Date 5-8-97		
Relinquished by	n Levin Date 5/8/917		
Logged in by	Date		
(IDENTI	FICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AND	D DISPERSION STAINING)	<del></del> 1
Sample OSH No. No.	Location/Description	Asbestos Type (or None)	Analyst Initials
100	CRAWL SPACE FROM MECH ROOM,		<b>a</b> n
NW-17	TSE/CORRIGARIS BUTIL CYING ABRITT	CHRYSOTILL	NOU
10° R -	CRAWL SPACE FROM BASEMENT, VENT DUCT TS I.		1 8
100 NW-19		CHRYSOTICE	wr
		,	
	<del> </del>		<u> </u>
		<del></del>	
1			
Analyst(s)	Compate 5-9-97		·
Analyst(s)	Date		
Results Logged	Date		

1899 North Hobson Avenue

North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION

QTR"A"

		g. & Remediation ICENSED INSPE		Building	100 NAY	y NHY Dat	te <u>5/8/91)</u>
INSPECTOR	JAMES	LENIS	DHEC LICE	nse no 🔔	21686	_ EXPIRATION DAT	TE 8/20/91)
INSPECTOR _			_ DHEC LICE	NSE NO _		EXPIRATION DAT	TE
NOTIFY OF R	ESULTS. 1	JA NAME <del>-Rowco Ci</del>	MES LEW	75 PHONE NO	743-6482 Ex	1. <del>230</del> -234	
	_	2. Fuith					
Relinquished by	James	- Luir	Date <u>5</u> /	5/91			
Logged in by	<i>"</i>		Date				
( <del></del>	(IDENTIFIC	CATION IS DETERM	INED BY POLARIZ	ED LIGHT MI	CROSCOPY ANI	DISPERSION STAINING	1
Sample No	OSH No		Location/Descr	nption		Asbestos Type (or None)	Analyst Initials
100 NAVY WAY 20		PLASTER	FROM LIV	INC RN	n /	NONG	NO
21						NONE	wor
22			,			NONE	wor
23		MASTIC F		SUR CARP	DET	NONE	WAC
24			1			NONE	inte
25		SCIL SAM LIVING RO	OPLÉ FROM OM 1 (CAR	UNPER AWL SPACE UM MECHLON	ACCESSED M/84SEMENT	CHRYSOTIL	E NDZ
26			1	1		CITRYSOTIC	E NOZ
Anaiyst(s)  Anaiyst(s)		Date Date	5-9-9	')			

#### 1899 North Hobson Avenue

From: (Project) Envir. I	Eng. & Remediation Detachment Building 100 NAV	4 WAY "A" Date:	5/8/97
	E MURAY DHEC LICENSE NO. 2/687	_ EXPIRATION DATE _	8/1/97
INSPECTOR JAA	mes Lawis DHEC LICENSE NO 2/686		
NOTIFY OF RESULTS	S: NAME Rovee Charpin PHONE NO 743-6482 Ex	a. <del>230</del> 23 4	
Relinquished to	my L fruit Date 5-8-97		
Relinquished by	naz Lem Date 5/8/97		
Logged in by	Date		
(IDENTI	FICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AND	D DISPERSION STAINING)	<del></del> 1
Sample OSH No No.	Location/Description	Asbestos Type (or None)	Analyst Initials
100 NAVY	MUD FROM UNDER WINDOW IN 3AD		
WAY 27	FEBOR BATH	NONE	W
100 NAUY WAY 28		NONE	w
100 NAVY	METMATERIAL LAYING IN ATTIC		
way 29	BEHIND BATH TUB STORAGE	NONE	WAZ
30		none	wor
31	INSULATION IN ATTIC BEHING TUB	NONE	aAr
32		NONE	MZ
33	STORME 2 FADED YELLOW INSULATION	NONE	WOK
34		NONE	M
Analyst(s)  Analyst(s)  Results Logged	Date 5-9-97		

1899 North Hobson Avenue

From (Project) Envir	r. Eng. & Remediation Detachment BY LICENSED INSPECTOR(S)	Building 100 WAV	1 WAY A Date	5/8/97
1	VICE / WAY DHEC LICE	NSE NO 21687	EXPIRATION DATE	8/21/77
NOTIFY OF RESUL	TS NAME ROVCE Charpia	PHONE NO. <u>743-6482</u> E	x1 230-234	7
Relinquished to	many J. Auft Date 5	-8-97		
Relinquished by	mer Leur Date 5/1	<u>8/97</u>		
Logged in by	Date			
(IDE)	TIFICATION IS DETERMINED BY POLARIZ	ED LIGHT MICROSCOPY AN	D DISPERSION STAINING)	<del></del> _
Sample OSI No No.	ocation/Descr	ription	Asbestos Type (or None)	Analyst Initials
100 Nwi-35	3rd HOVR, STORAGE 4,	REDFING-	NONG	MAR
NN-36 -	-	J	NONE	MA
100 NW-37	35 FLOOR, BATHAGEM #7		NONE	War
100 28 - WU			NONE	WR
Analyst(s) Analyst(s)	Date 5-9-97	)		
Results Logged	Date			

#### 1899 North Hobson Avenue

### North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION

QUARTERS A

From: (Project) Envir SAMPLES TAKEN B	Eng. & Remediation Detachment Building 100 NV	14 WAY Date	1-26.71
INSPECTOR Reve	MURANY DHECLICENSE NO 2/687	EXPIRATION DATI	E8-20-98
	104 ADKINS DHECLICENSENO. 22218		
	IS NAME BON MURING PHONE NO EXT.		
Relinquished to	Date		
Relinquished by	u Al Juny Date 1-26-98		
Logged in by	Date		
IDEN.	TIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	ND DISPERSION STAINING)	<del></del>
Sample OSH No No.	Location/Description	Asbestos Type (or None)	Anaiyst lnitiais
-39	PLASTER CORDS THROUGH SHEETING	NONE	l. J. S.
- 40	PEASTER FROM BEHIND SWITCHPEATE	NONE	1 d. d.
-41	PLASTER FROM BEXINDS OUTLET PLAKE	NONE	1.1.4
-42	PLASTER FROM BEHIND SWITCH PLATE	NONE	11.8.
- 43	DECORATIVE PLASTER IN	NONE	0.1.8.
-44		NONE	O. J. S.
-45		NONE	J.S.
- 46	WINDOW GLAZING	NONE	11.1.
nalyst(s)	Date 1-27-98  Date 1-28-98  Date		V

#### 1899 North Hobson Avenue

#### North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION

DE NAVE WAY

	Eng. & Remediation Detachment Building QUARCE Y LICENSED INSPECTOR(S).	Date /-26 TY
INSPECTOR BRUE	MULANY DHEC LICENSE NO 21681	EXPIRATION DATE 8 20 90
INSPECTOR ALLA	4 Ancies DHEC LICENSE NO 22218	EXPIRATION DATE 4-23,48
	S NAME BOLL MORAL PHONE NO EXT	. 234
Relinquished to	1 double 1-26-98	
Reimquished by		
Logged in by	Date	
(IDENT	TFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOP	Y AND DISPERSION STAINING)
Sample OSH No No	Location/Description	Asbestos Type Analyst (or None) Initials
100	WINDOW CLAZING	
NW-47		NONE J.J.S.
100 NW-48	WINDOW GUZING	NONE J.J.S.
100 NN-49	SOIL LOOSE TEI, SCATHLEID	10%
100 NW -50	(75I)	CHRYSOTILE J.J.S. 290 AMOSITE / 10% CHRYSTILE J.J.S.
100 NW-51	V (75.7) V	10% CHRYSOTILE J.J.S.
<u> </u>		
Analyst(s)	Date 1-27-98	
Analysi(s)	Date	
Results Logged	Date	

1899 North Hobson Avenue

North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

		ng. & Kemediatio		Bunging	( (A) (X) )	<u> </u>	Date. / C/Ty
	•	LICENSED INSPI	. ,				
INSPECTOR	Brice	1 percay	DHEC LIC	ENSE NO	21687	EXPIRATION D	ATE 8-20-9)
INSPECTOR	JAMI	Lewis	DHEC LIC	ENSE NO	21686	EXPIRATION D	ATE 8-20-31
NOTIFY OF R	ESULTS	NAME B.M	irray	PHONE N	10 £x7	254	
Relunquished to	fil	South.		27-			
Relinquished b	y bux	1/4	Date/	- 7 ح~	98		
Logged in by			Date		<del></del>		
<del></del>	(IDENTIFI	CATION IS DETERM	INED BY POLAR	IZED LIGHT	IICROSCOPY AN	D DISPERSION STAININ	(G)
Sample No	OSH No		Location/Des	semption		Asbestos Type (or None)	Anaiyst Initials
100		FIRE TSI	From K	1 TEHEN			
NW. 52					1	NONE	O.J.S.
-53					<i> </i>	NONE	116
-54				<i>\</i>	/ 	NONE	0.18
-55			TO POTTON	You LAYER	en)	>1% CHRYSUTIL	= 0.7.5
-56	804	(187 FOUR	LAYERS	)	F UINTL AHEAS)	> 1%0 CHRYSO tite	
-57		SHEET VIN	HUS 3	down)	25 '	> 1% CHRYSOTILA	
							1
1	1	1 11-					<del></del>

Date /- 28-98

Date

Result Logged

### ASBESTOS SURVEY QUARTERS "B", 200 NAVY WAY CHARLESTON NAVAL COMPLEX CHARLESTON, S.C.

### 1. DESCRIPTION:

House is 3952 square feet and is in good condition. The construction date of this house is 1905. Interior walls are sheetrock, exterior siding is wood, roof is asphalt shingle.

#### 2. FINDINGS:

Sixteen homogenous materials were identified as suspected Asbestos Containing Material (ACM). Of the sixteen homogenous materials, five were confirmed to contain asbestos, four were assumed to contain asbestos, and seven were asbestos free.

#### CONFIRMED ACM:

- 1. PIPING TSI, located in crawl space
- 2. PIPING TSI, located in attic
- 3. SOIL, loose pieces of TSI scattered throughout crawl space soil
- 4. ATTIC INSULATION UNDER DETERIORATING PIPE TSI, attic insulation is non-asbestos but has been contaminated by falling debris from pipe TSI
- 5. SHEETROCK JOINT COMPOUND, all walls and ceilings throughout house.

#### ASSUMED ACM:

- SHEET VINYL FLOORING AND MASTIC, located in the kitchen and porch 3.
- 2. SHEET VINYL FLOORING AND MASTIC, located in bathrooms 3 and 4.
- 3. CERAMIC TILE MORTAR, all bathrooms
- 4. FURNACE, in heater room, see General Note 3

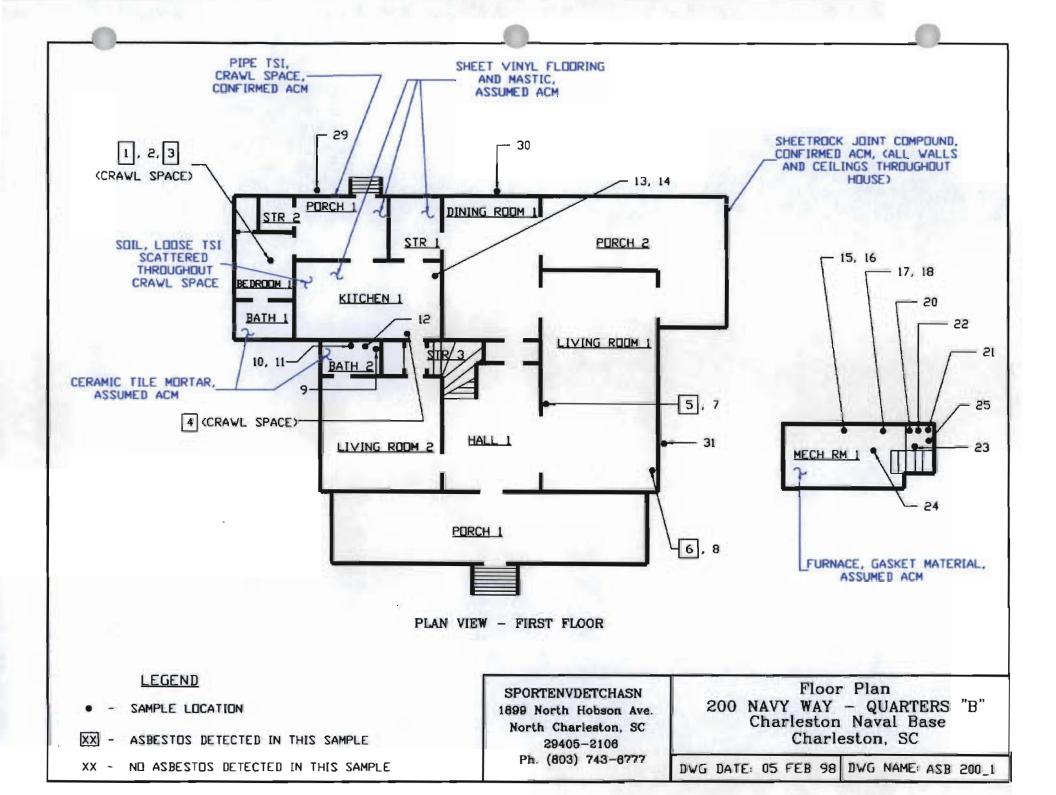
#### ASBESTOS FREE:

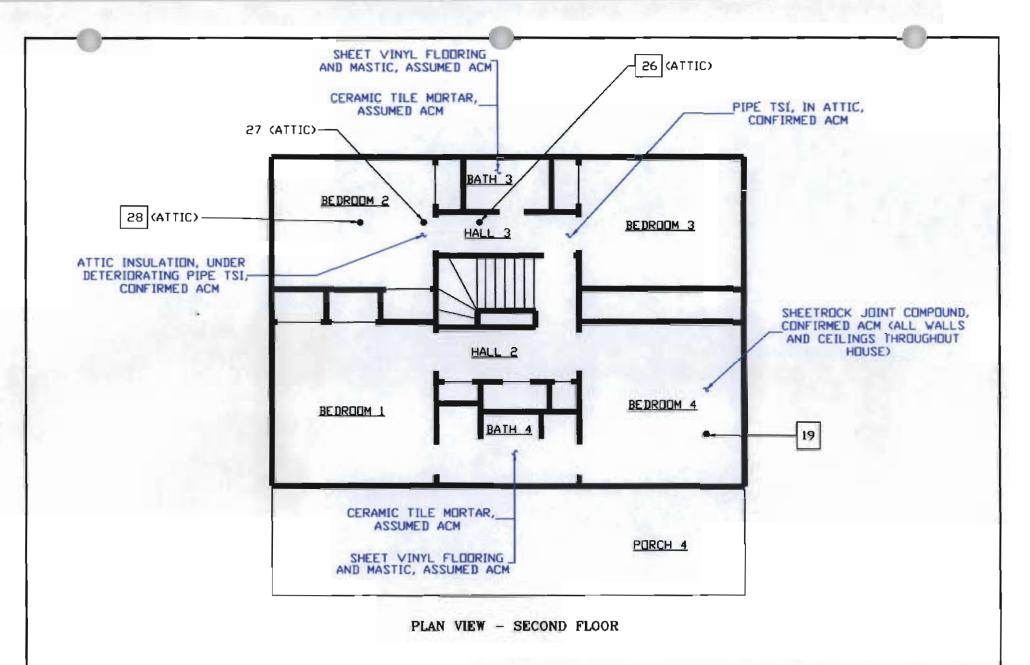
- 1. ATTIC INSULATION,
- WALLPAPER, bathroom #2
- 3. CAULK, located in bathrooms
- 4. FIREPROOF SHEATHING (w/ black paper)
- 5. DRYWALL (w/ brown paper)
- 6. JOINT COMPOUND, on fireproof sheathing and drywall in mechanical room
- 7. WINDOW GLAZING

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
200-NW-3	Y	PIPE TSI, crawl space	130 LF	l l	YES	SD	15	REMOVE	some piping tsi in crawl space has previously been replaced
200-NW-26	Y	PIPE TSI, attic	160 LF	ı	YES	SD	15	REMOVE	
200-NW-1 200-NW-4	Y	SOIL, loose TS1 scattered throughout crawl space soil	2000 sq. ft.	1	YES	SD	100	Remove loose TSI and soil.	
200-NW-27 200-NW-28	N Y	ATTIC INSULATION UNDER DAMAGED PIPE TSI	480 sq. ft,	I	YES	SD	100	REMOVE	Pipe tsi has deteriorated and fell on attic insulation. Attic insulation is non- asbestos.
200-NW-5 200-NW-6 200-NW-19	YYY	MISC., SHEETROCK JOINT COMPOUND, walls and ceilings throughout house	11,320 sq. ft.	5	Only where Damaged	D	< 1	Repair damage	<ul> <li>Bedroom # 4, ceiling has water damage, approx. 4 sq. ft.</li> <li>Living room # 1 has water damage, approx. 4 sq. ft.</li> </ul>
ASSUMED	Α	MISC., SHEET VINYL FLOORING, kitchen and porch 3	300 sq. ft.	6	NO	G	<1	O&M	tested positive in other Charleston Naval housing units
ASSUMED	A	MISC., SHEET VINYL FLOORING, bathroom 3 and 4	115 sq. ft.	6	NO	G	< 1	O&M	tested positive in other Charleston Naval housing units
ASSUMED	A	MISC., CERAMIC TILE MORTAR, all bathrooms	445 sq. ft.	8	NO	G	0	O&M	
ASSUMED	A	FURNACE	*	*	*	*	*	*	gen note #3

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet





### LEGEND

- SAMPLE LOCATION
- XX ASBESTOS DETECTED IN THIS SAMPLE
- XX NO ASBESTOS DETECTED IN THIS SAMPLE

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor Plan

200 NAVY WAY - QUARTERS "B"

Charleston Naval Base

Charleston, SC

DWG DATE: 05 FEB 98 DWG NAME: ASB 200\_2

### 1899 North Hobson Avenue

	ng. & Remediation Detachment Building 2∞ WAVE	1 WAY B" Date:	5/7/97
INSPECTOR BRUCE	MURENY DHEC LICENSE NO 21687	EXPIRATION DATE	8/21/97
INSPECTOR	DHEC LICENSE NO	EXPIRATION DATE	
NOTIFY OF RESULTS.	NAME Rove Chardia PHONE NO 743-6482	Ext. <del>230</del> ≥37	
Relinquished to Linin	1 touth Date _ 5-7-97		
Relinquished by	Leune Date 5/7/91)		
Logged in by	Date		
(IDENTIFIC	CATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY A	ND DISPERSION STAINING)	
Sample OSH No No	Location/Description	Asbestos Type (or None)	Analyst Initials
200 NW-1	CORRUCAND PAPER (CAYING ON GROUND)	CHRYSOTILE	Wor
200 NW-2	PIPE TSI, BLACK FELT WEAP	NONE	not
200 NJ-3	PIPE TSI, WHITE CHALKY CRAWL SPACE	CITRYSOTICE	we
200 NW-4	CRAWL SPACE SOIL	CHRYSOTILE	wor
NW-5 -	AROUND OUTLETS, BELOW CHAIR RAIL	CHRYSOTILE	w
NM-6 -		CHRYSOTILE	WAS
200 NW-7	LIVING ROOM #1, WALLBOARD BELOW CHAIR RAIL	NONE	non
200 NW-8	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	NONE	w
Analyst(s) Analyst(s) Results Logged	Date Date		

### 1899 North Hobson Avenue

	ir. Eng. & Remediation Detachment BY LICENSED INSPECTOR(S)  Building	U4 WAY B Date: 5/7/97
INSPECTOR Re	CE MURENT DHECLICENSE NO 21687	EXPIRATION DATE 8/21/9>
INSPECTOR	DHEC LICENSE NO	EXPIRATION DATE
NOTIFY OF RESUL	TS. NAME - ROVE Charme PHONE NO 743-6482 E	x 230 234
Relinquished to	immy 1 truth Date 5-7-97	
	ne Leve Date 5/7/91)	
Logged in by	Date	
(IDE)	NTIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	ND DISPERSION STAINING)
Sample OSI No. No	Location/Description	Asbestos Type Analyst (or None) Initials
200 NW-9 -	BATHMOOM #2 (WHITE W/450) WALL PAPER (BEIGE STRIPES)	none mor
10		NONE WAS
11	MUD PROMI OUER MEDICALE CABINET  IN BATH MUD  CHALK FROM BATH NO 2	NONE M
12	CHALK FROM BATH NO 2	NONE NAV
13	SHEETROCK IN KITCHEN *	NONE WAY
14		NONE MC
15	MUD FROM SHEATHING IN MECH RIT	NONE NAC
16	SHEATHANG IN OVER HEAD IN  IN ECH RIM I WIBLACK	NONE MIC
Analyst(s) Analyst(s) Results Logged	Date Date	

1899 North Hobson Avenue

From: (Project) SAMPLES TA	Envir. Eng. & KEN BY LICE	Remediation NSED INSPEC	Detachment Buildin	e 200 ir AU	y ust y Di	ate <u>5/7/97</u>
INSPECTOR _	BRUCE 1	NURRAY	_ DHEC LICENSE NO	21687	_ EXPIRATION DA	TE <u>8/21/91</u> 7
INSPECTOR_			DHEC LICENSE NO	<u> </u>	EXPIRATION DA	TE
NOTIFY OF R	ESULTS. NAN	Æ Rovec Chr	PHONE	NO 743-6482 Ex	1238-234	
			Date			
Relinquished	Same	Lewin	Date 5/17/91	<u>'7</u>		
Logged in by	<u></u>		_ Date			
	(IDENTIFICATI	ON IS DETERMIN	ED BY POLARIZED LIGHT	MICROSCOPY AND	DISPERSION STAINING	3)
Sample No	OSH No.		Location/Description		Asbestos Type (or None)	Anaiyst Initials
200 NW-17		HEATHING IECH	W/BROWN PAP	ER	NONE	- NA
18		72/-14:00	J		NONE	- wor
19	"	ED ROOM UD + TAPE	FAON BAMATEN	OVERHEAD	CHRYSOTI	uno
					, 	
				_		
Analyst(s)  Analyst(s)  Results Logged	<u> </u>	Date Date	·-9-97		, <u></u>	

# ENVIRONMENTAL ENGINEERING AND REMEDIATION

### DETACHMENT CHARLESTON 1899 North Hobson Avenue

### North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION ... ..

	ir. Eng. & Remediation Detachment Building 200 NAV1 BY LICENSED INSPECTOR(S).	Date:	1-29-98
_	UTA MULANA DHEC LICENSE NO 21637	EXPIRATION DATE _8	120/91
INSPECTOR	DHEC LICENSE NO.	EXPIRATION DATE	
NOTIFY OF RESUI	LTS NAME ROLL MULRAY PHONE NO EXT	234	
Relinquished to	1. Smth Date 1-29-98		
Relinguished by	Bud/Ly Date 1-29-98		
Logged in by	Date		
(IDE:	NTIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY A	ND DISPERSION STAINING)	
Sample OS No No	l.ocation/Description	Asbestos Type (or None)	Analyst Initials
NM-50	JOINT COMPOUND FROM DRYWALL (BROWN PAMER) IN MECH ROOM	NONE	1.1.1.
-21		NONE	1.2.4.
-22		NONE	1.1.8.
-23	JOINT COMPOUND FROM BLACK SHEATHING IN MECH. ROOM	NONE	11.8.
- 24		NONE	11.1
-25		NONE	1.1.
Analyst(s) Analysts)	1. Sale 1-29-98  Date		

### 1899 North Hobson Avenue

### North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

QUARKES "B"

From: (Project) Envir. En SAMPLES TAKEN BY I	ng. & Remediation Detachm LICENSED INSPECTOR(S)	ent Building	ZCC NAV	4 w+1 D	ate: 1-29-99
INSPECTOR BRUCE	MURATY DHEC	LICENSE NO	21627	_ EXPIRATION DA	TE 1 -20-9
NSPECTOR				EXPIRATION DA	
OTIFY OF RESULTS.	NAME Beve Musery	PHONE NO	). <u>K.e. r</u>	234	
Relinquished to J. J.	Smith Date_	1-29-	78		
elinquished by	Date_	1-27-9	8		
ogged in by	Date_				
(IDENTIFIC	CATION IS DETERMINED BY PO	LARIZED LIGHT MI	CROSCOPY AND	DISPERSION STAINING	3)
Sample OSH No No.	Location	Description		Asbestos Type (or None)	Anaiyst Initials
- 26	PIDE TSI. ATTI	<u> </u>		CHRYSOTICE	= DHC
-27	ATTIC INSULATION PIL			NONE	SHC
-23				YELLOW MATE NONE DECTETIES WHITE MATERIA CHRYSOTILE	LIS HC
ADM -					
SPM ====================================					
		$\rightarrow$			
nalyst(s) H. Check					
esults Logged	Date				

### 1899 North Hobson Avenue

### North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION

QUARTES B

From (Project) Envir. Eng. & Remediation Detachment Building 200 NA SAMPLES TAKEN BY LICENSED INSPECTOR(S).	04 WAY Date: 1-30-98
INSPECTOR JAMES LEWIS DHECLICENSE NO 21686	EXPIRATION DATE 8/2016 &
INSPECTOR DHEC LICENSE NO.	, ,
NOTIFY OF RESULTS NAME BRUCE MURRY PHONE NO 3-617	
	<del>,</del>
Relinquished by James Suin Date 1/30/95	
Relinquished to Date  Relinquished by James Seuin Date 1/30/98  Logged in by Date	
(IDENTIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AND	DISPERSION STAINING)
Sample OSH Location/Description	Asbestos Type Anaiyst (or None) Initials
200 NW-29 WINDOW GLAZING FLOOR	NONE O.S.S.
-30	NONE J.S.
-31	NONE 1.38.

### NOTE:

- ASBESTOS TSI IN THE CRAWL SPACE OF QUARTERS C WAS REMOVED DURING FEBRUARY OF 1998.
- ASBESTOS CONTAMINATED SOIL IN CRAWL SPACE OF QUARTERS C WAS ENCAPSULATED WITH CONCRETE IN FEBRUARY OF 1998.
- ALL OTHER ACM FOUND DURING THE INSPECTION COVERED BY THIS REPORT REMAINS IN PLACE.

## ASBESTOS SURVEY QUARTERS "C", 300 NAVY WAY CHARLESTON NAVAL COMPLEX CHARLESTON, S.C.

### 1. **DESCRIPTION:**

Unit is 6451 square feet. Built in 1908. Exterior is wood siding. Roof is metal with a applied coating. No roofing samples were obtained.

### 2. **FINDINGS**:

Fourteen homogeneous materials were identified as possible Asbestos Containing Material (ACM). Of the fourteen homogeneous materials, 4 were confirmed to contain asbestos, 4 were assumed to contain asbestos, and 6 were found to be asbestos free.

#### **CONFIRMED ACM**

- 1. PLASTER, located on walls and ceilings throughout house
- 2. PIPING TSI, crawl space
- 3. SOIL, crawl space
- 4. PACKING / PUTTY, basement, between piping and brick wall

#### ASSUMED ACM

- 1. SHEET VINYL FLOORING and MASTIC, kitchen, laundry, and storage room
- 2. TILE WALLBOARD (TRANSITE), kitchen
- 3. CERAMIC TILE MORTAR, all bathrooms
- 4. BOILER, see General Note 3

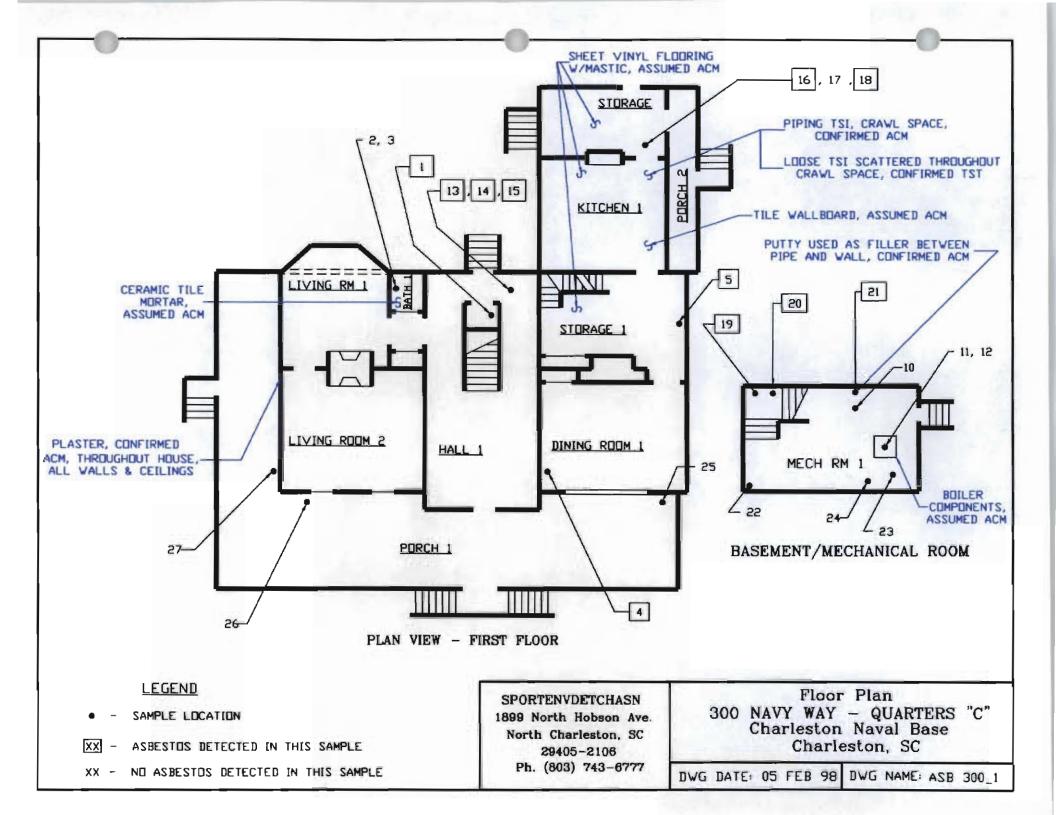
#### ASBESTOS FREE

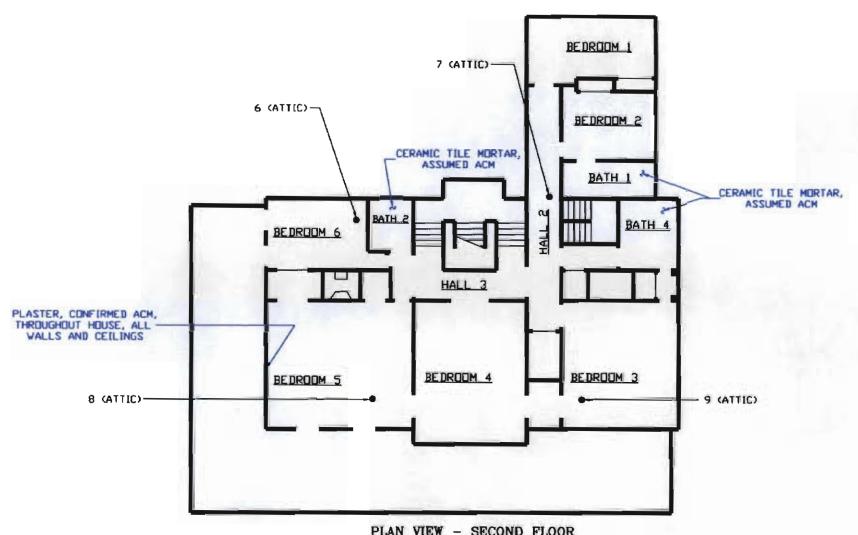
- 1. ATTIC SHEATHING
- 2. ATTIC INSULATION
- 3. WALLPAPER
- 4. PIPING TSI, only in basement / mechanical room
- 5. HVAC DUCT TSI, only in basement / mechanical room
- 6. WINDOW GLAZING

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
300-NW-1	Y	PLASTER, walls	15500 sq. ft.	3	YES, only	G	< 1	Repair	Approx. 2 sq. ft. area
300-NW-4	Y	and ceilings	•		where		! i		damaged in basement
300-NW-5	Y	throughout house			damaged .			}	_
300-NW-19	Y				_		ĺ		
300-NW-20	Y					₽ 	<u> </u>		
300-NW-13	Y	PIPING TSI,	460 LF	1	YES	SD	35	REMOVE	ABATEMENT OF
300-NW-15	Y	crawl space					İ		THIS MATERIAL IS
300-NW-16	Y	1			!		į		IN PROGRESS
300-NW-17	Y								
300-NW-14	Y	SOIL, (loose	1400 sq. ft.	1	YES	SD	100	REMOVE	ABATEMENT OF
300-NW-18	Y	piping tsi) crawl space	·						THIS MATERIAL IS IN PROGRESS
300-NW-21	Y	MISC. PUTTY /	1 sq. ft.	8	NO	D	20	REMOVE	
	1	PACKING, used	1	Ì	:				
		as filler between					1		
		pipe and brick			1				
		wall in basement			1		Į		
ASSUMED	A	MISC. SHEET	630 sq. ft.	6	NO	G	0	0 & M	
		VINLY					Ì		
		FLOORING and					į		
		MASTIC,			•	}			
		kitchen, laundry,				ļ	•		
~		storage rooms					!		
ASSUMED	Α	MISC. TILE	32 sq. ft.	8	NO	G	, 0	O & M	
		WALLBOARD					ļ		
		(transite),			1		į		
		kitchen							<u> </u>
ASSUMED	Α	MISC.	637 sq. ft.	8	NO	G	0	O & M	
		CERAMIC TILE			İ				
		MORTAR, all							
		bathrooms			<u> </u>				
ASSUMED	Α	BOILER	*	*	*	*	*	*	* see general note # 3

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet





PLAN VIEW - SECOND FLOOR

# LEGEND

SAMPLE LOCATION

ASBESTOS DETECTED IN THIS SAMPLE

NO ASBESTOS DETECTED IN THIS SAMPLE

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777

Floor Plan 300 NAVY WAY - QUARTERS "C" Charleston Naval Base Charleston, SC

DWG DATE: 06 FEB 98 DWG NAME: ASB 300 2

1899 North Hobson Avenue

	Eng. & Remediation Detachment Building 子の ベルル LICENSED INSPECTOR(S).	9 _ :: Ø = / Date _	<u> \$7</u> )
INSPECTOR RELEASE	Marking DHEC LICENSE NO 2168"	EXPIRATION DATE_	8/21/
INSPECTOR	DHEC LICENSE NO	EXPIRATION DATE _	
NOTIFY OF RESULTS	NAME ROVEE CHAPPIS PHONE NO 743-6482 E	xt. <del>230</del> 234	
Relinquished to Auri	1 South Date 5-6-97		
//	vs. Lenin Date 5/6/97		
Logged in by	Date		
	FICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AND	ND DISPERSION STAINING)	
Sample OSH No No.	Location/Description	Asbestos Type (or None)	Analys Initial
	STENIAGE BELOW STAIRS	(or None)	A TITITIZE
100 NW-1 -	PLASTER (PI)	CHRYSOTILE	M
300 -2 -	BATHRIM # 1 WALLBANKR (WP:)	HONE	WA
300		NONE	NOT
300 NW-4	BINING RIOM / SHEETROCK PLASTER WITH FOCKS	CHRYSOTICE	W
300 NW-5	SIDRAGE 1 PLASTER	CHRYSOTILE	no
300 NW-6	ATTIC INSUCATION	NONE	W
300 NW-7		NONE	w
Nm-8	ATTIC SHEATING	NONG	1/1/8
Analyst(s)  Analyst(s)  Results Logged	Date 5-8-97		

1899 North Hobson Avenue

		ICENSED INSPECTOR(S)  Building 300 NA	Date _	5/5/97
INSPECTOR	BRUCE	Murea 7 DHEC LICENSE NO 21687	_ EXPIRATION DATE _	7/21/97
INSPECTOR	·	DHEC LICENSE NO	EXPIRATION DATE	
		NAME Rovce Charpin PHONE NO 743-6482 Ex	d <del>230</del> 234	
Relinquished	to fini	my J. South Date 5-6-97		
Relinquished	of gan	12 Lewin Date 5/6/917		
Logged in by	<i>J</i>	Date		
	(IDENTIFI	CATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)	<del></del> _
Sample No	OSH No.	Location/Description	Asbestos Type (or None)	Analyst Initials
200 300	_	ATTIC SHEATHING	NONE	w
300		BASEMENT, PIPE TSI TSI-1 (1" FIPE, OVERHEAD, NEAR PUMP)	NONG	inte
νω-11 300		BASEMENT, FIRE TSI VENT TSI FIRME BOKER VENT DUCT TSI	NONE	WAR
Nm-15		BASEMENT, BOILER VENT TSI	NONE	W
, 300 NW-13	_	CRAWL SPACE, PIPING TSI TSI-1 (LAYING ON GEOWD, FLU CHI PIPE)	CHRYSOTILE	MZ
300 NW-14	_	CRAWL SPACE SOIL - TSI	CHRYSOTILE	WOZ
300 NW-15	_	CRAWL SPACE, PIPING TSI, CORCUGATED PAPER (LAYING ON GROUND)	CHRYSOTILE	2002
300 NW-16		PIPE TISI CHAWL SPACE 75/-/	CITRYSOTILE	W
Analyst(s)	ed	Date Date	'','	
		<del></del>		

### 1899 North Hobson Avenue

	ICENSED INSPECTOR(S)  Building 3 0 0 7	Date	
INSPECTOR	DHEC LICENSE NO	EXPIRATION DATE	
INSPECTOR	DHEC LICENSE NO	EXPIRATION DATE	
	NAME Rovce Charpia PHONE NO 743-648.	2 Ext. 230	
// .	my 1. 1 Date 5-6-97		
Relinquished by fam	12 Lewin Date 5/1/97		
Logged in by	Date		
(IDENTIFI	CATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY	AND DISPERSION STAINING)	
Sample OSH No No	Location/Description	· · · · · · · · · · · · · · · · · · ·	alyst tials
300 NW-17	CRAWL SPACE, PIPE TSI, LATING ON GROUND	NONE M	A
300 NW-18	CRAWL SPACE SOIL - TSI	CHRYSOTILE W	OZ.
300 NW-19	BASEMENT PLASTER	CHRYSOTILEN	5 t
Nm.50	1	CHRYSOTILEND	1
300 NW-21	BASEMENT, PUTTY (FLOM BETWEEN PLAK & BRICK)	CITY SO TILE WE	H
	•		ļ
Analyst(s)  Analyst(s)  Results Logged	Date Date		

1899 North Hobson Avenue

# North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION

QUARTAS C

From. (Project) En SAMPLES TAKE:	vir. Eng. & Remediati NBY LICENSED INSP	on Detachment Building 300 NA ( ECTOR(S).	Date	2-2-98
INSPECTOR BE	WE MURREY	DHEC LICENSE NO 21687	EXPIRATION DAT	E <u>8-20-9</u> 8
INSPECTOR		DHEC LICENSE NO	EXPIRATION DATI	
NOTIFY OF RESU	ILTS NAME B.M.	PHONE NO EXT.	234	
Relinquished to	1. South	Date 2-3-98		
Relinquished by	Bun Al las	Date 2-3-98		
Logged in by		Date		
(ID)	ENTIFICATION IS DETERM	MINED BY POLARIZED LIGHT MICROSCOPY 4	ND DISPERSION STAINING)	
H	SH lo.	Location/Description	Asbestos Type (or None)	Anaiyst Initials
- N M - 35	1 "	S" PIPE NEAR BRICK WALL, METAL COMER REMOVED)	NUNE	1.1.8.
30C	Bour	3" FIRE OFF BOTTOM OF	NONE	0.1.1
300	COES THRU B	CRICK WAN (HARD, WHITE, MAT'L)	NUNE	1 d S.
-25	WINDOW G	ZAZING	NONE	118
-26			NONE	18.8.
-27			NONE	15-5.
Analyst(s)	1. Salt Date_	1/3/98		
Anaiysus	Date			
Resuits Logged	Date			

### ASBESTOS SURVEY QUARTERS "J" 311 NAVY WAY CHARLESTON NAVAL COMPLEX CHARLESTON, S. C.

\_\_\_\_\_

### 1. **DESCRIPTION**:

Unit is approximately 2624 square feet and was built in 1917. Exterior is lapboard siding with asphalt shingles and is in good condition.

#### 2. FINDINGS:

Fifteen homogenous materials were identified as suspected Asbestos Containing Material (ACM). Of the fifteen homogenous materials, 5 were confirmed to contain asbestos, 3 were assumed to contain asbestos, and 6 were asbestos free.

#### **CONFIRMED ACM:**

- 1. WALLBOARD, (MISC), Located in mech. room, covered with sheet metal
- 2. SHEET VINYL FLOORING, (MISC) Located in the kitchen, and storage # 2. Four layers of flooring, only 3<sup>rd</sup> and 4th layers contain asbestos.
- 3. MORTAR, (MISC), large pile of ceramic tile w/ mortar in crawl space
- 4. TSI, loose pieces of TSI scattered throughout soil in crawl space
- 5. DRYWALL, (MISC)loose pieces in crawl space

#### **ASSUMED ACM:**

- 1. BOILER, internal components / gaskets (TSI), located in mech. room
- 2. FLOOR TILE, 9" x 9", located in porch 2, on ramp leading to kitchen
- 3. CERAMIC TILE MORTAR, in all bath rooms

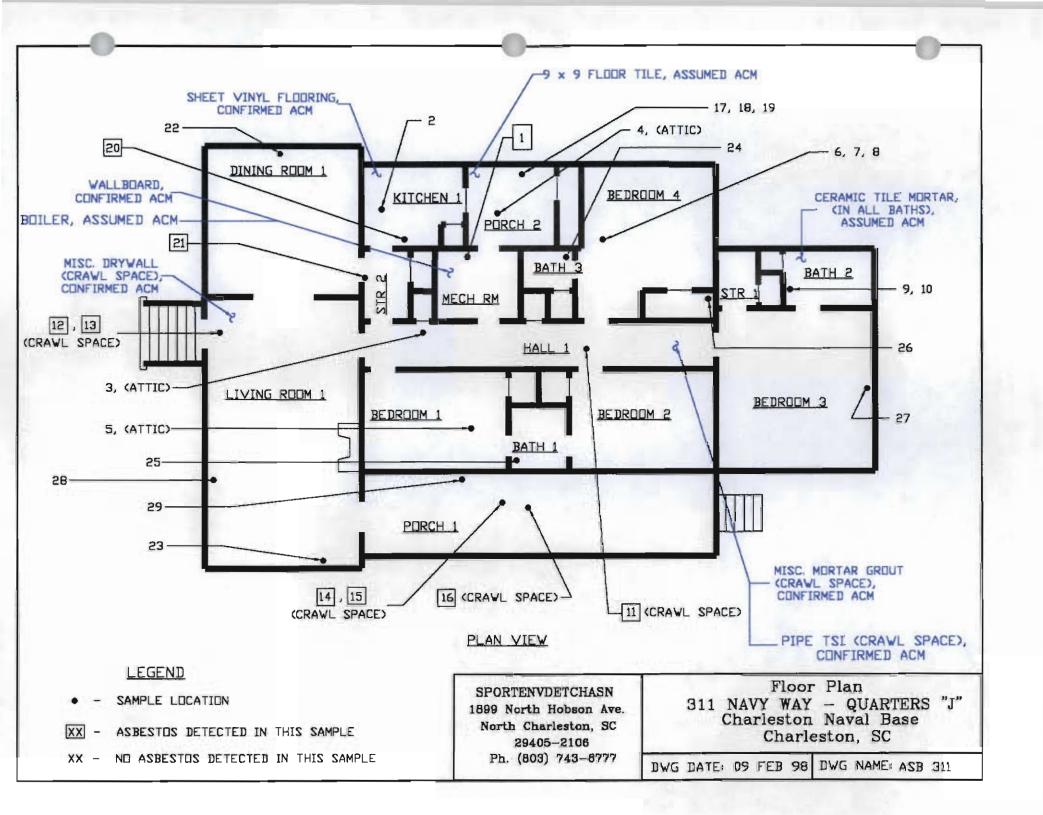
#### ASBESTOS FREE:

- 1. WALLPAPER, in bath #2
- 2. TEXTURED CEILING, blown or rolled on
- 3. PLASTER
- 4. SHEETROCK JOINT COMPOUND
- 5. WINDOW GLAZING
- 6. ROOFING FELT

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
311-NW-1	Y	MISC., WALLBOARD, mech. room	175 sq. ft.	4	Y	D	*	REMOVE REPAIR	* wallboard is coverred with sheet metal
ASSUMED	A	TSI, BOILER, internal components / gaskets	N/A	8	, Y	G	0	O&M	SEE NOTE #3
311-NW-11	Y	MISC. MORTAR, crawl space, construction debris	10 cubic feet	4	Y	D	100	REMOVE	
311-NW-14	Y	TSI, crawl space,	2624 sq. ft.	1	Y	SD	100	REMOVE	
311-NW-15	Y	loose pieces							
311-NW-16	Y	scattered throughout soil							
311-NW-12	Y	MISC. DRY -	15 sq. ft.	4	Y	SD	100	REMOVE	
311-NW-13	Y	WALL, loose pieces in crawl space			Variant deliberation of the state of the sta				
311-NW-20	Y	MISC., SHEET	150 sq. ft.	6	N	G	0	0 & M	
311-NW-21	Y	VINYL FLOORING, kitchen, storage # 2,	•	r	No. and other property of the state of the s				
ASSUMED	A	MISC. FLOOR TILE, 9" X 9", porch 2	10 sq. ft.	6	N	G	0	O&M	
ASSUMED	A	MISC CERAMIC TILE MORTAR, all bathrooms	270 sq. ft.	8	N	G	0	O & M	

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet



1899 North Hobson Avenue

From: (Project	t) Envir. I	Eng. & Remediation LICENSED INSPEC	Detachment TOR(S)	Building	311 NAVY	aby	"J Date.	5-/6/97		
		Muzeay		ENSE NO	21687	_ EXPIR	ATION DATE	8/21/97		
INSPECTOR			DHEC LICE				ATION DATE			
NOTIFY OF	NOTIFY OF RESULTS. NAME ROYCE Charpia PHONE NO 743-6482 Ext. 230 254									
	~	I toto		5-6-9	2					
Relinquished	by france	Way -	Date	16/92						
Logged in by			Date	, , ,						
<del> </del>	(IDENTIE	FICATION IS DETERMIN	NED BY POLARIZ	ZED LIGHT MI	CROSCOPY ANI	D DISPERSIO	ON STAINING)	<del>,,,,,,,</del>		
Sample No	OSH No		Location/Desc	emption			estos Type or None)	Anaiyst Initials		
311 NW-1	-	MECH RUOT WALL BOXE				CHR	YSOTILE	nor		
311 Nav-2		KITCHEN CEILING, 1	PUSTER			ΝĈ	NC	NOR		
311 NW-3		INTO DOEM			ing	40	NE	WZ		
311 NW-4	_	ATTIC,	FING FE	CT	:	NO	v E	WZ		
311 NW-5	~_	ATTIL, LOOSE ROE	SFING SH	fing CE		NO	NE	var		
311 NW-6	_	BEDROOM #4 BLOWN CELL	NG			NO	NE	ran		
311 NW-7	_		,	I		NO	N (	M		
311 NW-8	~	BEDROOM # "		Klinock, T	TAP£ + MUD	とい	NE	MR		
Analyst(s)  Analyst(s)  Results Logger		Date Date	<u>5-9-</u> 9	)						

1899 North Hobson Avenue

From (Project SAMPLES TA	t) <b>Envir. E</b> i AKEN BY I	ng. & Remediation	on Detachment ECTOR(S)	Building 3	II NAUY	WAY "I" D	ate 5/6/97
INSPECTOR	Brus	Mucan	DHEC LICE	ENSE NO 2	687	_ EXPIRATION DA	TE 8/4/97
INSPECTOR			DHEC LICE	ENSE NO		EXPIRATION DA	TE
NOTIFY OF	RESULTS.	NAME ROVEE	harpia Tueses	PHONE NO 7	43-6482 Ex	1.230 234	
Relunquished	10 Jum	1 touth	Date	-6.97			
Relinquished	by	-DITTER	Date 5	-/6/97			
Logged in by		<u>/</u>	Date	·	<del></del>		
	(IDENTIFI	CATION IS DETERN	IINED BY POLARI	ZED LIGHT MICR	OSCOPY ANI	DISPERSION STAINING	3)
Sample No	OSH No		Location/Desc	cription		Asbestos Type (or None)	Analyst Initials
311 NW-9	<del>-</del>	BATHROS				NONE	war
311 NW-10		BATTHEODIM WAWAH				NONE	NA
311 NW-11	-	FILLE	RMATE	RIAL (CO	MENT)	→CHRYSOTIC	EM
311 NW-12	<del></del>	1005€ 1	NEY-WALL N CEAWL	, LAYIN	ر ده ه	CHRYSOTI	} <b>.</b>
311 NW -13						CHRYSOTI	LE MP
311 NW-14	_		PER, CAYING SPACE (			CHRYSOTIL	
311 NW-15			DECUCATED.	,	47126	CHRYSOTIL	.E ME
311 NW-16	~_	SOIL FR CRAWL SI	om PACE (de	GBRIS)		CHRYSOTT	LEWS
Analyst(s)  Analyst(s)  Results Loggeo	R	Date	<u>5-9-9)</u>	)			

1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

		ng. & Remediation Detachment Building 3/1 NAV	y way Date	5/6/97
INSPECTOR	BRUCE	MURRAY DHECLICENSE NO 21687	_ EXPIRATION DATE	8/20/97
INSPECTOR	TAMES	5 LF W/5 DHEC LICENSE NO 2/686	EXPIRATION DATE	8P0/97
NOTIFY OF R	ESULTS	NAME Royce Charpia PHONE NO 743-6482 Ex	at. 230	/
Relinquished to	Lening	1 Amb Date 5-6-97		
Relinquished by	y Bu	Date 5-6-97  Date 5/6/97		
Logged in by		Date		
[ <del></del>	(IDENTIFI	CATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AND	D DISPERSION STAINING)	<del>-,,</del>
Sample No.	OSH No	Location/Description	Asbestos Type (or None)	Analysi Inittals
3/1 NAV Y WAY-17		FELT UNDER GREEN SHINALES	NONE	Wor
18		GREEN SHENGLE S	NONE	wor
19		ROCL ROOFING MATIL	NONE	w
Analyst(s)  Analyst(s)	X	Out 5-9-97  Date		
Results Logged	<del>/</del>	Date		

1899 North Hobson Avenue

North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION COMERCE J

	vir. Eng. & Remediation  N BY LICENSED INSP		NAVY WAY Date:	2-4-1
		DHECLICENSE NO 21686	EXPIRATION DATE	5-20-9
INSPECTOR		DHEC LICENSE NO	EXPIRATION DATE	
NOTIFY OF RESU	ILTS NAME JAMES	LEWIS PHONE NO 67	77- EVET W9	
Relinguished to	1 0 -//	Date 2-4-98		
	ames Lewin	Date 2/4/98	_	
Logged in by		Date	-	
	ENTIFICATION IS DETERM	INED BY POLARIZED LIGHT MICROSCO	= PY AND DISPERSION STAINING)	
	SH		Asbestos Type	Anaiyst
No N	<u>o.</u> ,	Location/Description	(or None)	inunais
311-NW	SHEET U	NAT FLOREING KITCHEN	14 3%	
- 20	(MULTIPLE	LAYERS) 3 Rd & 4+11 LAYER	CHIZYSUTILE	1.28
311 NW	SHEET VIN	IL FLOORING, STORAGE 2 5 LAYERS TO?	I	
21	MULTIPLE	LAYERS 34 H LAYER	CHRYSOTIFE	1.2.8
311 NN	PLASTER	PININT ROOM	-	1
22			NONE	11. A.
311 10 20	PLASTER,	LIVING ROOM WALL		
-23			NONE	V. J. A.
311-10 00	PLASTER, B	ATHROOM & WALL, BEHIN	1	1010
~24	11		NONE	1.2.0
-25	PLASTER ;	BATHROSIM I WALL, BEHIND		211
311 NW	1 -	JOINT COMPOUND	NONE	10 D
-26	BEDROOM		NONE	Vd A
311 NW		INT COMPOUND	7	71
27	BEDROOM		NONE	1.1.1.
			0	7
1	1 2 1	, ,		
nalystis)	1. Smuth Date 2	15-198		
nalystis)	Date			
suits Logged	Date			

1899 North Hobson Avenue

North Charleston, South Carolina 29405-2106
ASBESTOS IDENTIFICATION
QUARTERS

From: (Project) Envir. Eng. & Remediation Detachment Building 311 NAOA WAY Date: 2-4-99 SAMPLES TAKEN BY LICENSED INSPECTOR(S). INSPECTOR BRUCE MUNERTY DIECLICENSE NO. 21687 EXPIRATION DATE 8-20 98 INSPECTOR JAMES (EMIS DHECLICENSE NO 21686 EXPIRATION DATE 8-10-1) NOTIFY OF RESULTS NAME JAMES LEWIS PHONE NO 6717 ENT 139 Date \_\_\_ Relinquished to Relinquished by dames Lewis Date 2/4/98 Logged in by Date (IDENTIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AND DISPERSION STAINING) Sample OSH Asbestos Type Anaivst Location/Description No. No (or None) lmuais WINDOW GLAZING 311-NW - 23 211-100 -29

Anaivst(s)	Date 2-5-98
Analysis)	Date
Results Logged	Date

# ASBESTOS SURVEY 795 AVENUE F, BUILDING # 758 CHARLESTON NAVAL COMPLEX CHARLESTON, S.C.

### 1. DESCRIPTION:

Unit is 3992 square feet. Approximate date of construction is 1942. Exterior is concrete block. Roofing material is asphalt shingle. Roofing samples were not obtained. Units at 801 Avenue F and 795 Avenue F are both built to the NH-64 floor plan. Many materials in both units are of the same homogeneous group.

### 2. FINDINGS:

Nine homogeneous materials were identified as suspected Asbestos Containing Material (ACM). Of the 9 homogeneous materials, 1 was confirmed to contain asbestos, 5 were assumed to contain asbestos, and 3 were found to be asbestos free.

#### **CONFIRMED ACM**

1. PIPE TSI, located in garage, in attic over second floor, in attic over mechanical room, and in attic over bedroom 1

#### **ASSUMED ACM**

- 1. MORTAR for clay tile, in kitchen and porch
- 2. MORTAR for ceramic tile, all upstairs bathrooms
- 3. BOILER, mech. room (see gen. note # 3)
- 4. SHEET VINYL FLOORING, located in storage rooms 1 and 2, adjacent to kitchen
- 5. SHEETROCK JOINT COMPOUND, walls and ceilings throughout house (samples confirmed at 801 Ave. F)

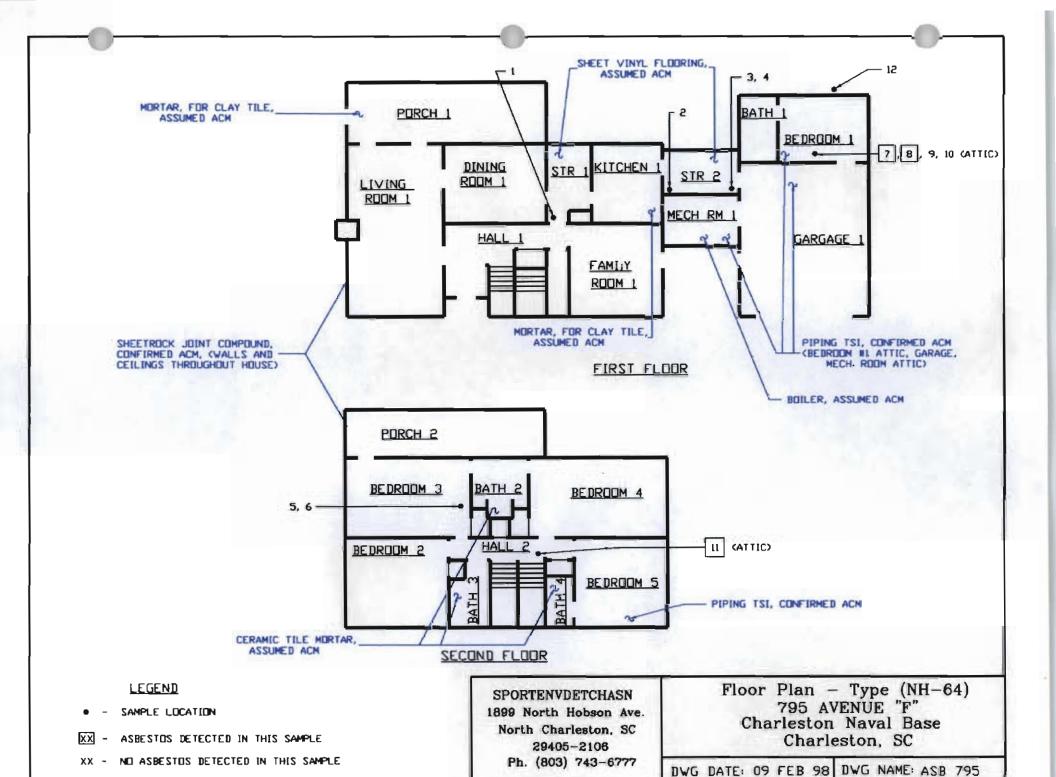
#### ASBESTOS FREE

- 1. WALL COVERING, rolled-on, rough finish, storage room 2
- 2. WALLPAPER, bedroom #3
- 3. WINDOW GLAZING

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
795 F-7 795 F-8 795 F-11	YYY	TSI, PIPING, garage, attic above 2 <sup>nd</sup> floor, attic above mechanical room, and attic over bedroom #	650 LF		Y	SD	15	REMOVE	Damage exist in attic above 2 <sup>nd</sup> floor and attic above bedroom 1. Unable to enter attic above mech, room but condition and quantity is presumed to be similar to 801 Ave. F.
ASSUMED	A	MISC., SHETROCK JOINT COMPOUND, walls and ceilings throughout house	8336 sq. ft.	6	Z	G	0	O & M	<ul> <li>Assumed ACM based on results from 801 Ave. F.</li> <li>Also, see gen. note # 1</li> </ul>
ASSUMED	A.	MISC, MORTAR, clay tile, kitchen and porch	387 sq. ft.	8	Z,	G	0	O & M	
ASSUMED	A	BOILER	*	*	*	*	*	*	see gen, note # 3
ASSUMED	A	MISC., SHEET VINLYL FLOORING, located in storage rooms 1 and 2, adjacent to kitchen	137 sq. ft.	6	N	G	0	0 & M	300 gen, note # 3
ASSUMED	A	MISC, MORTAR, ceramic tile, all upstairs bathrooms	250 sq. ft.	8	N	G	0	0 & M	

ABBREVIATIONS: HMG.NO = Homogeneous Area Number, ACM = Asbestos Containing Material, Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program



1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

	ir. Eng. & Remediation Detachment BY LICENSED INSPECTOR(S)	Building 79s	- Aue	F	Date: 5//3/47
INSPECTOR 5	EUCE MURRAY DHECLICI	ENSE NO 2/68	E	EXPIRATION I	DATE 8/21/43
INSPECTOR	DHEC LICE	ENSE NO	E	EXPIRATION I	DATE
NOTIFY OF RESUL	TS NAME Rove Charper	7 . _PHONE NO <u>743-6</u>	482 Ext 23	0 2 3 4	
Relinquished to	N LAUX Date 5	-13-97	_		
Relinquished by	lames Levin Date 5/	13/917	<del></del>		
Logged in by	Date		_		
(IDE	NTIFICATION IS DETERMINED BY POLARI	ZED LIGHT MICROSCO	OPY AND DIS	PERSION STAINI	ING)
Sample OS No No	Location/Des	cription		Asbestos Typ (or None)	oe Anaiyst Initials
795 =	STORAGE 1 SAEET VINTE FLOOR	ING WIMASTIC		NONE	NAC
795 F _	STORAGE ? SHEET WINIE FLOORI	ne whyasti	<	NONE	Inte
775 F 3 -	STORAGE 2 ROLLES .	NISH		10N E	- W&C
7754		1		NONE	iver
745F -	BEDROOM # 3 WALL PAPER BORDE	· c	,	00%E	- WZ
775F _				NONE	[
795 F	MAINS ROOM ATT PIDING TSI (W)	HITE, CHACK		CHRY50 AMOSIT	TILE WIL
795F -	V	1	(	1-Ry20 T AmosIT	-ILE WA
Analyst(s)  Analyst(s)  Results Logged	Date  Date	>			

1899 North Hobson Avenue

From. (Project) Envir. Eng SAMPLES TAKEN BY LI	c. & Remediation Detachment Building 795	AUL F Date:	5/13/97
SAMILES TAKEN BILL	MURRAY DHEC LICENSE NO 3168?		. /
INSPECTOR	TIURATY DHECLICENSE NO	EXPIRATION DATE	3/21/9)
INSPECTOR	DHEC LICENSE NO	EXPIRATION DATE	
NOTIFY OF RESULTS: N		Ext. 230	
Relinquished to	AUX Date 5-13-97		
Relinquished by Jame	2 Levin Date 5/13/97		
Logged in by	Date		
(IDENTIFIC	ATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AS	ND DISPERSION STAINING)	
Sample OSH No No.	Location/Description	Asbestos Type (or None)	Analyst Initials
795 F -9 -	MAIDS ROOM ATTIC (BEDROOM)  BLACK ROOFING FELT	NONE	NOZ
795F		NONE NONE	in
Analyst(s)	W/Date 5-14-9)		- <del></del>
Analyst(s)	Date		
Results Logged	Date		

#### 1899 North Hobson Avenue

JSPECTOR	KEN BY LIC	MURRAY DHEC LICENSE NO 2168	7 ) EVBID 4 TION D 4 T	± 0-20-9
		<b>}</b>		
		DHEC LICENSE NO		Ξ
		AME B. MARAY PHONE NO #		
elinquished to	. W.E.	may Date 2/6/98	<del></del>	
elinquished by	y Lud /	May Date 2/6/98 Date 2-6-98	_	
ogged in by		Date		
		TION IS DETERMINED BY POLARIZED LIGHT MICROSCO		
Sample No	OSH No	Location/Description	Asbestos Type (or None)	Anaiyst Initials
795 F	17	PIPING TSI , ATTIC		
- 11			CHRYSOTILE	won
1956	L	NINDOW GLAZING	CHRYSOTILE No 14e	
-12			Nolve	WEM
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# ASBESTOS SURVEY 801 AVENUE F, BUILDING # 759 CHARLESTON NAVAL COMPLEX CHARLESTON, S.C.

#### 1. DESCRIPTION:

Unit is 3992 square feet. Approximate date of construction is 1942. Exterior is concrete block. Roofing material is asphalt shingle. Roofing samples were not obtained. Units at 801 Avenue F and 795 Avenue F are both built to the NH-64 floor plan. Many materials are homogeneous to both units.

### 2. FINDINGS:

Twelve homogeneous materials were identified as possible Asbestos Containing Material (ACM). Of the 12 homogeneous materials, 3 were confirmed to contain asbestos, 3 were assumed to contain asbestos, and 6 were found to be asbestos free.

#### CONFIRMED ACM

- 1. SHEETROCK JOINT COMPOUND, walls and ceilings throughout house
- 2. PIPE TSI, located in attic over mechanical room
- 3. SHEET VINYL FLOORING, located in bedroom 1 and storage rooms 1 and 2, adjacent to kitchen

#### **ASSUMED ACM**

- 1. MORTAR for clay tile, in kitchen and porch
- 2. MORTAR for ceramic tile, all upstairs bathrooms
- 3. BOILER, mech. room (see gen. note # 3)

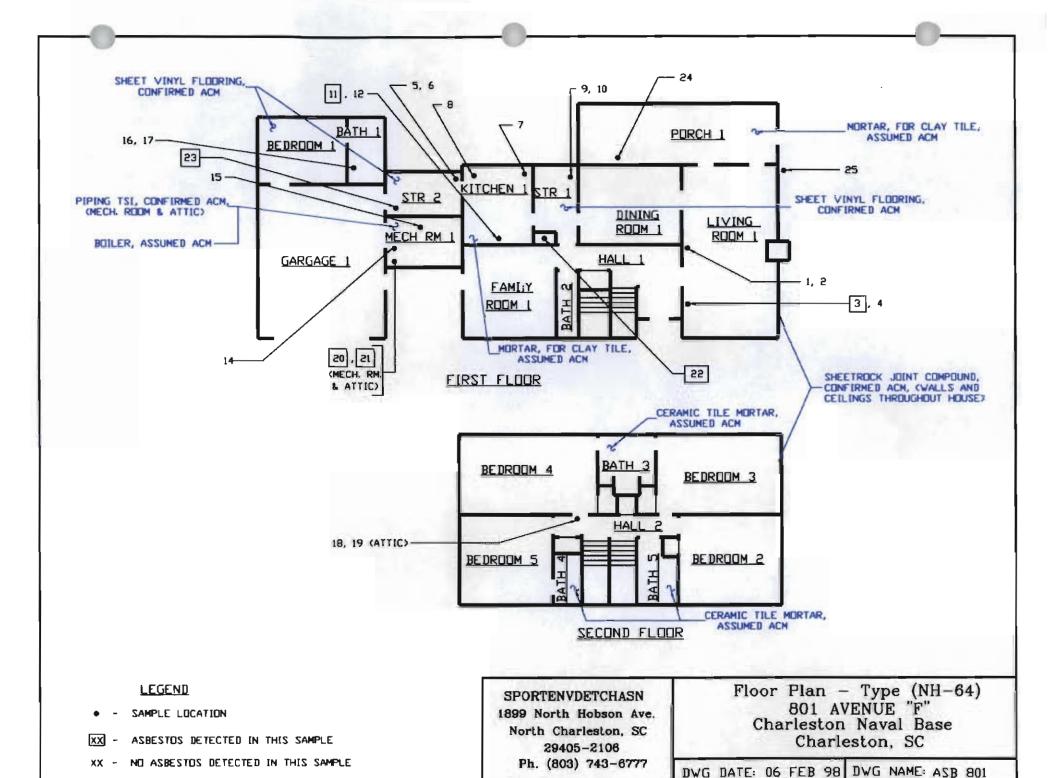
#### **ASBESTOS FREE**

- 1. WALL COVERING, rolled-on, rough finish, storage room 2
- WALLPAPER, living room # 1
- WALLPAPER, storage # 1
- 4. WALLPAPER, kitchen
- 5. ATTIC INSULATION
- 6. WINDOW GLAZING

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
801 F-3 801 F-11	Y	MISC., SHETROCK JOINT COMPOUND, walls and ceilings	8336 sq. ft.	6	N	G	< 1	Repair, O & M	Gen. Note # 1 Approx. 15 sq. ft. of flaking paint, various areas
801-F-20 801-F-21	YY	TSI, PIPING, attic over mechanical room	60 LF	1	Y	SD	17	REMOVE	
801-F-22 801-F-23	Y	MISC., SHEET VINLY FLOORING, bedroom # 1, storage rooms # 1 and # 2	277 sq. ft.	8	N	G	0	O & M	
ASSUMED	A	MISC, MORTAR, clay tile, kitchen and porch	387 sq. ft.	8	N	G	0	O&M	
ASSUMED	A	MISC, MORTAR, ceramic tile, all upsairs bathrooms	250 sq. ft.	8	N	G	0	0 & M	
ASSUMED	A	BOILER	*	*	*	*	*	*	see gen. note #3

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet



1899 North Hobson Avenue

		g. & Remediation Detachment Building 901 A	VE F Date	5-/13/97
	1	MURAA 1 DHEC LICENSE NO 2/68 7	EXPIRATION DATE	8/2/97
		HE LEWIS DHECLICENSE NO 21686		_ / /
		NAME Rove Charpia PHONE NO 743-6482 Ex		<del></del>
Relinquished to	·	1 LAUX Date 5-14-9)		
Relinquished b	y Same	2 Luni Date 5/14/97		
Logged in by		Date		
	(IDENTIFIC	CATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AND	DISPERSION STAINING)	<del></del> 1
Sample No	OSH No.	Location/Description	Asbestos Type (or None)	Analyst Initials
801F -1		WALLPARER BORDER	NONE	no
801F -2			NONE	W
80( F -3		SHEETNICK PUTTY	CHRYSOTILE	NA
801 F -4		LIVING ROOM / SHEETROCIC	NONE	NA
801F -5	_	STORAGE 2 ROLED ON WALL COVERING (ROCH FINISH)	NONE	we
801F -6	~		N 0N €	NASC
801F -7	_	KITCHEN, SHELTMOCK	NONE	WAR
801F	~	SHEKMOCK PUTTY (HALKING	NONE NONE	WAZ
Analyst(s)  Analyst(s)  Results Logger	<del>//</del> /	Date 574-97		

#### 1899 North Hobson Avenue

From: (Project) Envir. SAMPLES TAKEN B	Eng. & Remediation Detachment Building 80/ A	AUE F Date:	5/13/97
_	CE MURRY DHEC LICENSE NO 2168?	EXPIRATION DATE _	8/21/97
INSPECTOR J	AMER LEWIS DHECLICENSENO. 21686		, ,
NOTIFY OF RESULT	S: NAME ROVE Charpia PHONE NO 743-6482		
Relinquished to	12AUX Date 5-14-97		
Relinquished by	mes Lewin Date 5/14/90		
Logged in by	Date		
(IDENT	TIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY A	AND DISPERSION STAINING)	<del></del> 1
Sample OSH No No	Location/Description	Asbestos Type (or None)	Anaiyst Initials
801F -9	STORAGE I, WALLPAHER BORDER	NONE	VAN
801 F _		NONE	W
901 F -11 -	KITCHEN, SHEETROCK POTTY	CHYROSITE	ndc
801F _	KITCHEN WAICPAPER (BLUE W/WHITE CINES)	HONE	NOZ
801F _		HONE	war
801F -	MECT. ROOM WALL COVERING	NONE	WR
801F -		NONE	PRV
801 F -16 -	BATHROOM # 1 PLASTER	NONE	War
Analyst(s) Analyst(s) Results Logged	Date 5-14-97		

#### 1899 North Hobson Avenue

	ng. & Remediation Detachment Building Sol Ava	Date:	5 (13/9)
_	CR MURNAY DHECLICENSE NO 2/687	EXPIRATION DATE	8/21/7
INSPECTOR	145 LEWIS DHEC LICENSE NO. 21686	EXPIRATION DATE	8/20/97
NOTIFY OF RESULTS:	NAME ROVCE CHAPTE PHONE NO 743-6482 EX	t. <del>230</del> ≥ ₹ 4	,
Relinquished to	LAUX Date 5-14.9)		
Relinquished by Jam	es Levi Date 5/14/97		
Logged in by	Date		
(IDENTIF)	ICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)	<del></del>
Sample OSH No. No	Location/Description	Asbestos Type (or None)	Analyst Initials
901F -17 -	BATHMOSIM #/ PLASTER	NONE	MAR
801F -18	UPSTAIRS ATTIC INSULATION	NONE	NA
801F -19		NONE	war
801 F -20	PIPING TSI (WHITE, CHALKY)	(1+RY50 TICE	M
801 F -21 -		CHRYSOTILE	ndc
Analyst(s)	aufate 5-14-9)		
Analyst(s)	Date		
Results Logged	Date		

#### 1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

		ing. & Remediation		Building	801 A	ve. F	Date: _	2-4-98
INSPECTOR	BRUCE	MURRAY	DHEC LICE	ENSE NO 2	21687	EXPIRATION D	ATE.	8-26-98
INSPECTOR	·		DHEC LICE	ENSE NO		_ EXPIRATION D	ATE	
NOTIFY OF	RESULTS	NAME B. Mu	RRAY	PHONE NO	ExT.	234		
Reimquished	10	y I South	Date _ 2	-4-9	8			
Relinquished	// //	/ I / /	_ Date		_			
Logged in by			Date					
·	(IDENTIF	CATION IS DETERM	INED BY POLARIZ	ED LIGHT MIC	CROSCOPY ANI	D DISPERSION STAININ	(G)	
Sampie No	OSH No.		Location/Desc	приоп		Asbestos Type (or None)	:	Anaiyst
801 F		SHEET VINAL	FLOOMING.	(STIRAGE	Runn /	2%		
- 22	3/	LAY EN	MASTIC POSSI	RIE MU	TI- LA YERS	CHRUSOTIL	<u>e</u>	Q1.S.
.23		ROOM Z) P				2%		ار مرر
1.53		LAYER E		Z LAYE	2	CHAY SOTIFE	<u>-</u>	VIA.
-24			_			NONE		0.1.8
-25		6 modering	CAZING				0	
2,		<u> </u>				NONE		1.8
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		<u> </u>						
		/						
Analysi(s)	ing L. K	noth Date 2	-5-98					
Analyst(s)	/	Date	<del></del> -					
Results Logged		Date						

# ASBESTOS SURVEY QUARTERS "NH-H" 1451 AVENUE H CHARLESTON NAVAL COMPLEX CHARLESTON, S.C.

#### 1. DESCRIPTION:

Unit is approximately 2392 square feet and is built to the type 12 floor plan. Construction date is approximately 1919. Exterior of house is white stucco. Roofing material is asphalt shingles.

#### 2. FINDINGS:

Eight homogeneous materials were identified as possible Asbestos Containing Material (ACM). Of the 8 homogeneous materials, 3 were confirmed to contain asbestos, 3 were assumed to contain asbestos, and 2 were found to be asbestos free.

#### **CONFIRMED ACM**

- SHEETROCK JOINT COMPOUND, walls and ceilings throughout house, see General Note 1
- 2. PIPE TSI, crawl space
- 3. SOIL, crawl space, piping TSI is damaged and has contaminated soil

#### **ASSUMED ACM**

- 1. FLOOR TILE w/ MASTIC, kitchen
- 2. CERAMIC TILE MORTAR, in all bathrooms and kitchen
- 3. BOILER, mechanical room, see gen. note #3

#### ASBESTOS FREE

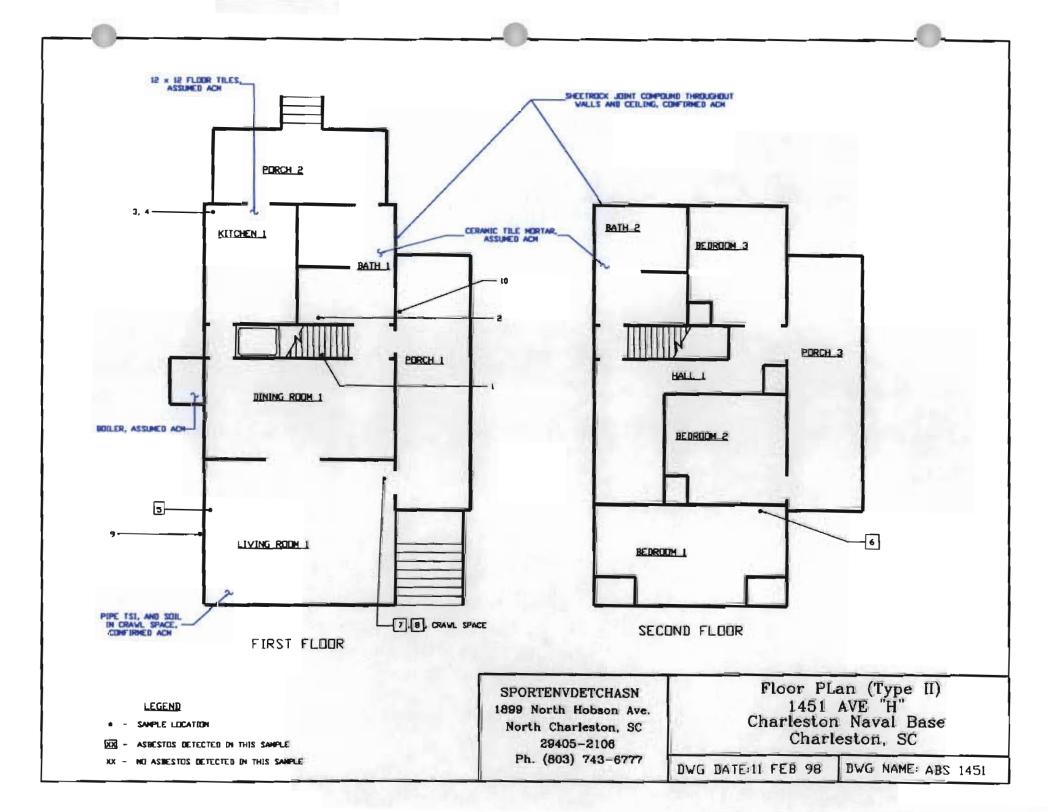
- 1. WALLPAPER, kitchen
- 2. WINDOW GLAZING

# CHARLESTON NAVAL COMPLEX HOUSING

1451 AVENUE H QUARTERS NH-H

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1451 H-5 1451 H-6	Y	MISC. SHEETROCK JOINT COMPOUND, walls and ceilings	4600 Sq Ft	6	N	G	<1	O & M	see gen. note # 1
1451-H-8	Y	PIPE TSI, CRAWL SPACE	250 L F	1	Y	SD	>10	REMOVE REPAIR O& M	
1451-H-9	Y	SOIL, LOOSE TSI in crawl space	2624 Sq Ft	1	Y	D	100	REMOVE	
ASSUMED	A	MISC CERAMIC TILE MORTAR, in all bathrooms and kitchen	270 Sq Ft	6	z	G	0	O&M	
ASSUMED	A	TSI, BOILER, mech. room	N/A	8	N	G	0	O&M	see gen. note # 3
ASSUMED	A	MISC. FLOOR TILE, 12" x 12", kitchen	150 Sq Ft	6	N	G	0	O&M	

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet



#### 1899 North Hobson Avenue

		40 <u>2</u> /7 Date:	5/12/9
INSPECTOR Knuck	MURRAY DHECLICENSE NO 21687	EXPIRATION DATE _	3/21/9
NO NO LOCATION (or None) Inter  1451  4-1  SHEETROCK  NONE  W  1451  H-Z  SHEETROCK  NONE	8/20/57		
NOTIFY OF RESULTS	S. NAME Royce Chardia PHONE NO 743-6482	Ext. 230	′ /
Relinquished to	my of truth Date 5-13-97		
Relinquished by _an	er Eurice Date 5/13/407		
Logged in by	, ,		
(IDENT)	IFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY A	AND DISPERSION STAINING)	
'	Location/Description	7.	Analyst Initials
11 '	•   '	NONE	WAC
II		NONE	WA
1	KITCHEN, WALL PAPER BORDER	NONE	NAZ
li I		NONE	WOL
		PUTTY CHRYSCTILE	M
	1		wa
Analyst(s)	auxBate 5-14-9)		<del>_</del>
Analyst(s)	Date		
Results Logged	Date		

#### 1899 North Hobson Avenue

From. (Project) Envir. Eng. SAMPLES TAKEN BY LIC	& Remediation Detachment Building ENSED INSPECTOR(S).	1451 AUE 11 Date	3-16 7
INSPECTOR JAMES	DHEC LICENSE NO	2/696 EXPIRATION DATE	8/2/14
INSPECTOR	DHEC LICENSE NO	EXPIRATION DATE	
NOTIFY OF RESULTS NA	MEPHONE NO	)	
	moth Date 2-10-90		
Relinquished by Jone	Lewin Date 2/10/9	<u> </u>	
logged in by	Date		
IDENTIFICAT	TON IS DETERMINED BY POLARIZED LIGHT VIO	CROSCOPY AND DISPERSION STAINING)	<u> </u>
Sample OSH	Location/Description	Aspestos Type (or None)	Anaiyst Initials
1451-H TFL (	PAINE ISI), FROM CRAWLS		
-37 30	CHANTA	CHAYSUTIFE: 10%	9.1.8.
- 9 JEL S	WHITE CHANKY TSI	CHANSO TILE: 10%	011
		6	7
			1
	<del></del>		
			<u>                                     </u>
naivstis) Juning J. And	Date 2-10-98		
nalys(s)	Date		
suits Logged	Date		

#### 1899 North Hobson Avenue

#### North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION

From: (Project SAMPLES TA	Envir. Eng. & Remed KEN BY LICENSED IN	iation Detachment Swid	ing <u>/45-/ 4</u> .	DE H Date	2-11-97
INSPECTOR	JAMES LEWI	C DHEC LICENSE N	0 21686	EXPIRATION DATE	8/2./01
INSPECTOR		DHEC LICENSE N	o	EXPIRATION DATE	·
NOTIFY OF R	RESULTS, NAME		E NO		
Reimauished to	J. J. Anth	Date 2-/2	-98		
Reimquisned	James Lewin	Date 2/12/9	8		
Logges in by		Date			
	IDENTIFICATION IS DET	ERMINED BY POLARIZED LIGH	IT MICROSCOPY AND	OISPERSION STAINING)	<u>-</u>
Sample No	OSH No.	Location/Description		Aspestos Type (or None)	Anaiyst Initials
1451-14-	I	R WINDOW W GLAZING	(4)		<u> </u>
9	20,000			NONE	918
1451-1+-	CUINAOCU	GLAZING, PORCH	(8)	NONE NONE	1-1. S.
		<del></del>			
				•	
					<u> </u>
		<del> </del>			
	1				
naivst(s)	Date Date	1-12-98			
nalyst(s)	Date				
esults Logged	Date				

### ASBESTOS SURVEY QUARTERS "NH-I" 1463 AVENUE H CHARLESTON NAVAL COMPLEX CHARLESTON, S.C.

#### 1. DESCRIPTION:

Unit is approximately 2392 square feet and is built to the type 12 floor plan. Construction date is approximately 1919. Exterior of house is white stucco. Roofing material is asphalt shingles.

#### 2. FINDINGS:

Ten homogeneous materials were identified as possible Asbestos Containing Material (ACM). Of the 10 homogeneous materials, 3 were confirmed to contain asbestos, 4 were assumed to contain asbestos, and 3 were found to be asbestos free.

#### **CONFIRMED ACM**

- 1. PUTTY, mech. room, in open end of pipe, use unknown
- 2. PIPING TSI, crawl space
- 3. SOIL, crawl space, piping TSI is damaged and has contaminated soil

#### ASSUMED ACM

- SHEETROCK JOINT COMPOUND, walls and ceiling throughout house, see General Note 1
- 2. BOILER, mechanical room, see General Note 3
- 3. SHEET VINYL FLOORING, kitchen two layers over 9x9 green tiles
- 4. CERAMIC TILE MORTAR, in all bathrooms

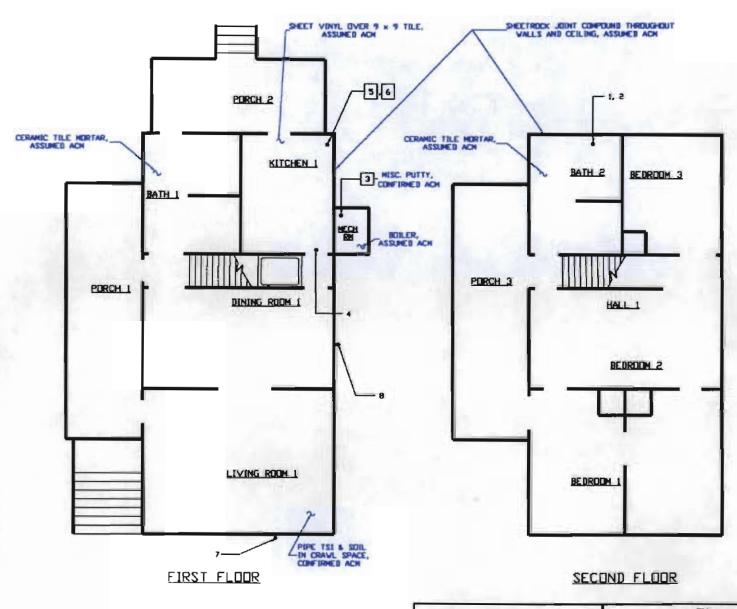
#### ASBESTOS FREE

- 1. WALLPAPER, kitchen
- 2. SHEET VINYL FLOORING, upstairs bathroom closet
- 3. WINDOW GLAZING, exterior of windows

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
ASSUMED	A	MISC. SHEETROCK JOINT COMPOUND, walls and ceilings	4600 Sq Ft	6	N	G	<1	O & M	gen. note # 1
1463-H-5	Y	PIPE TSI, crawl space	250 LF	1	Y	SD	>15	REMOVE REPAIR O & M	
ASSUMED	Α	TSI, BOILER, mech. room	N/A	8	N	G	0	0 & M	gen. note #3
1463-H-3	Y	MISC. PUTTY, mech. room, in open ended pipe	i Sq Ft	1	Y	D	75	REMOVE	
1463-H-6	Y	SOIL IN CRAWL SPACE	2624 Sq Ft	1	Y	D		REMOVE O & M	
ASSUMED	A	MISC CERAMIC TILE MORTAR, in all bathrooms	270 Sq Ft	6	Z	G	0	O&M	
ASSUMED	A	MISC. SHEET VINYL FLOORING, kitchen	130 Sq Ft	6	N	G	0	O&M	

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet



LEGEND

- SAMPLE LOCATION

XX - ASBESTOS DETECTED ON THIS SAMPLE

XX - NO ASBESTOS DETECTED IN THIS SAMPLE

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor PLan (Type II) 1463 AVE "H" Charleston Naval Base Charleston, SC

DWG DATE:11 FEB 98

DWG NAME: ABS 1463

1899 North Hobson Avenue

		ng. & Remediation JICENSED INSPE		1765 A	Date:	5/12/97
INSPECTOR	BRUCE	MURRAY	DHEC LICENSE NO	2/687	EXPIRATION DATE	8/21/97
INSPECTOR	·		DHEC LICENSE NO		_ EXPIRATION DATE	
NOTIFY OF	RESULTS.	NAME Rovce C	hardia PHONE N	IO <u>743-6482 Ex</u>	ct. 230	
Relinquished	to Jemm	y I. South	Date <u>5-/3-</u>	97		
Relinquished	on Jame	es Levin	Date L	5/13/9	īv )	
Logged in by			Date			
T	(IDENTIFI	CATION IS DETERM	INED BY POLARIZED LIGHT	MICROSCOPY AND	D DISPERSION STAINING)	<del></del>
Sample No	OSH No.		Location/Description		Asbestos Type (or None)	Analyst Initials
1463		] •	BATHROOM			A
#-/		SHEET V	INGL FLOORING		NONE	IN1 4
1463 H-Z					None	NA
1463 H-3		BASEMENT, PUTTY TI	MECHRM END V PIPE	?	AMOSITE	wa
			<del></del>			
Analyst(s)  Analyst(s)  Results Logger		Date Date	5-,7-97			····

#### 1899 North Hobson Avenue

North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION
1463 Latitus H"

SAMPLES TA	KEN BY LICENSED	NISPECTORIES	2mong		_Date: $\frac{2/7/73}{}$
INSPECTOR.	JAMES LE	This DHECLIC	ENSE NO <u>2/65</u>	<u>6</u> EXPIRATION	IDATE <u>9/21/9°</u>
INSPECTOR		DHEC LIC	ENSE NO	EXPIRATION	DATE
	ESULTS NAME		_PHONE NO		
Reimausned to	J. L. Amil	Date	2-10-98	_	
Relinquished	James Le	wir Date 2	110/98		
Logged in by	J	Date	/	_	
_	(IDENTIFICATION IS D	<del></del>	ZED LIGHT MICROSCO	— DPM AND DISPERSION STAI	NING)
Sample	OSH	Location/Des		Asbestos T	pe Anaiys:
1413 -	No		•	(or None	
H-4		VINYL FLO		1	
	Piera	STSF) CR	AUL SPACE	MONE 3	95 X 1
-5	CHAUL	vrys		CHAYSOTILE: 1	0% 188.
-/	2010	INITE CHAUKY	TRT	Mosite: >	0% It S. 1% It S.
		MITE CHAUNY	782	CHRYSOTILE: 3	10 17.00
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<del>1</del> ~					
F FLOOR	YIKE CAN HE T3ASiS (	NOT THE DE	James of &	to 131 ASISE ASISE	5705 - FiTEE 18
	I South Do			,	
nalysus)	Da				
esults Logged	Da				

### ENVIRONMENTAL ENGINEERING AND REMEDIATION

### DETACHMENT CHARLESTON

#### 1899 North Hobson Avenue

#### North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION OTRE NH-1

From: (Project	n) <mark>Envir. Eng</mark>	& Remediation	Detachment	Building _	1463	Ave H	_ Date: ,	2-11-97
			` ,	NSE NO 2	1636	_ EXPIRATION	DATE	<b>6</b> -50-61
INSPECTOR						EKPIRATION		_
NOTIFY OF							•	
Reimauisnea	Janor	ME O J JE (	Date	-12-9	8			
Relinquished	y James	- Luni	Date	112/95	· ·			
Logged in by	1		Date	,				
<del></del>	IDENTIFICA	TION IS DETERMI	NED BY POLARIZ	ED LIGHT MIC	ROSCOPY AND	DISPERSION STAC	NING)	
Samble No	OSH No.		Location/Descr	aption		Asbestos Ty (or None)	•	Anaiyst Initiais
1463-11	1	windsiu		4	(4)			211
1463-1+		(FRONT W			[R]	NUNE		1.7.8.
8	í	ARON A C. U				NONE		18.8.
					<u> </u>			
					į			
		•				vn		
	<u> </u>				<u> </u>			
Analyst(s)	ning J. A	Date 2	-12-98					
Anaiystyst	<i></i>	Date	<u>.</u>					
Results Logged		Date						

# ASBESTOS SURVEY 1510 HOBSON AVENUE, QUARTERS "Z" CHARLESTON NAVAL COMPLEX CHARLESTON, S.C.

#### 1. **DESCRIPTION:**

Unit is 3783 square feet. Built in 1943. Exterior is transite siding. Roofing material is asphalt shingle. Quarters "Y" and Quarters "Z" make up one duplex. Many materials in both units are of the same homogeneous group.

#### 2. FINDINGS:

Sixteen homogeneous materials were identified as suspect Asbestos Containing Material (ACM). Of the 16 materials, 2 were confirmed to contain asbestos, 5 were assumed to contain asbestos, and 9 were found to be asbestos free.

#### CONFIRMED ACM

- 1. PIPING TSI, crawl space and attic (piping in attic may be partially covered by attic insulation)
- 2. HVAC DUCT TSI MASTIC (black mastic) in attic and crawl space

#### ASSUMED ACM

- 1. TRANSITE SIDING, house exterior
- 2. TRANSITE SIDING, within enclosed porch
- 3. TRANSITE, loose pieces of siding in crawl space
- 4. CERAMIC TILE MORTAR, bathroom #3 and #4
- 5. SOIL, in crawl space (based on findings at 1516 Hobson)

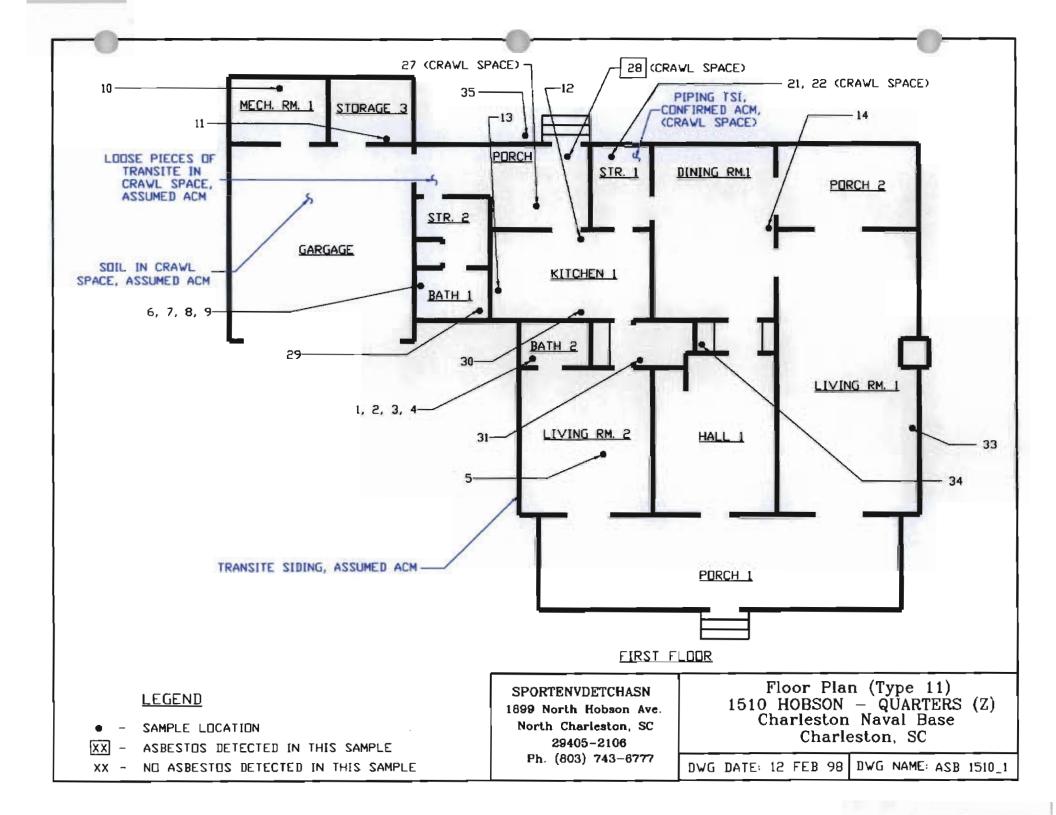
#### ASBESTOS FREE

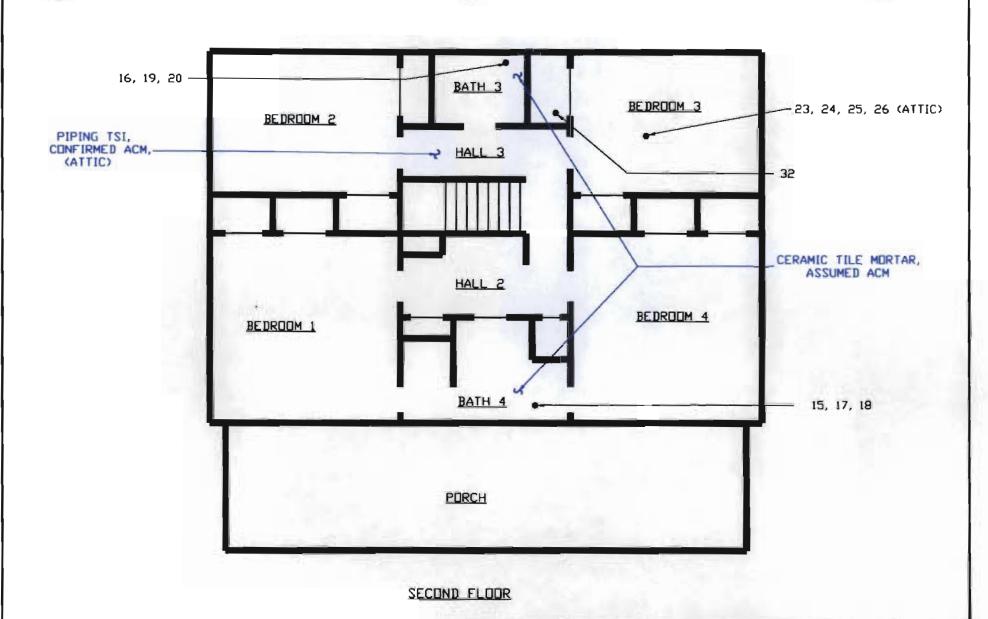
- 1. WALLPAPER, in bathrooms
- 2. LOOSE SHEETROCK, loose pieces in crawl space
- 3. FIREPROOF SHEATHING, garage, (of same homogeneous group as sheathing in HD-23 houses, samples taken in HD-23 houses)
- 4. SHEET VINYL FLOORING, in kitchen and storage room 1
- SHEET VINYL FLOORING, in bathroom 1
- 6. SHEET VINYL FLOORING, in bathroom 2
- 7. SHEET VINYL FLOORING, in bathroom 3 and 4
- 8. WALLBOARD, living room # 1, living room # 2, hall # 1, dining room, kitchen, below chair rail
- 9. WINDOW GLAZING

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1516-HOBSON-7 1516-HOBSON-9 1516-HOBSON-9	Y Y Y	TSI, PIPING, crawl space and attic	125 LF	1	YES	D	10	REMOVE	NOTE: there is also fiberglass piping tsi in the crawl space
1510-HOBSON-28	Y	HVAC DUCT TSI MASTIC, in attic and crawl space, (black mastic)	100 LF	7	NO	G	0	REMOVE or O & M	
ASSUMED	А	MISC. TRANSITE SIDING, house exterior	*	*	*	*	*	*	* assessment not required on exterior materials
ASSUMED	A	MISC. TRANSITE, loose pieces in crawl space	5 sq. ft.	8	NO	D	100	REMOVE	
ASSUMED	A	MISC. TRANSITE SIDING, within enclosed porch	160 sq. ft.	8	NO	G	0	O&M	
ASSUMED	A	MISC., CERAMIC TILE MORTAR, bathrooms 1, 2 and 3	410 sq. ft.	7	NO	G	<1	REPAIR O & M	< 1 sq. ft. damaged in bathroom #4
ASSUMED	A	SOIL, in crawl space	2000 sq. ft.	I	YES	SD	100	REMOVE	Based on findings at 1516 Hobson

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet





### <u>LEGEND</u>

- SAMPLE LOCATION

XX - ASBESTOS DETECTED IN THIS SAMPLE

XX - NO ASBESTOS DETECTED IN THIS SAMPLE

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor Plan (Type 11)
1510 HOBSON - QUARTERS (Z)
Charleston Naval Base
Charleston, SC

DWG DATE: 12 FEB 98 DWG NAME: ASB 1510\_2

#### 1899 North Hobson Avenue

	N BY LICENSED INSPECTOR(S).	fOBSON Date:	4/29/91/
INSPECTOR JAM	MES LEWIS DHECLICENSE NO 21686	EXPIRATION DATE	8120/97
INSPECTOR	DHEC LICENSE NO	EXPIRATION DATE	<u> </u>
NOTIFY OF RESU	JIM LEWIS  JLTS NAME Rovee Charma PHONE NO 743-6482	Ext. 230-139	
Relinquished to	auf Date 4-29-97		
Relinquished by	Pames Elever Date 4/29/97		
Logged in by	Date		
(IDI	ENTIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY A	ND DISPERSION STAINING)	<del></del>
1 1	SH Location/Description	Asbestos Type (or None)	Analyst Initials
1510 403502	NOZ BATH WP-1	110 10	
	BLACK BACKGROWND W/ WHITE FLOWERS	NONE	MR
2	WP-1	NONE	NAC
3	WHITE SQUARE WY BIADOWD IN CENTER	NONE	wo
4	VF-1	NONE	nde
5	LIVING RM CEIRING TILE	NONE	wh
6	NO 1 BATH (WP-2) BLUE AND WHITE STRIPS	NONE	INAZ
7	(WP-2)	NONE	W
8	1' WHITE FLOOR COVERING	NONE	noc
Analyst(s)  Analyst(s)  Results Logged	Date 5-1-97		

1899 North Hobson Avenue

	Envir. Eng. & Remediati EN BY LICENSED INSP		Date:	4/19/91/
INSPECTOR J	AMES LEWIS	DHEC LICENSE NO 21686	EXPIRATION DATE	8120/91
INSPECTOR		DHEC LICENSE NO.	EXPIRATION DATE	
NOTIFY OF RES	SULTS: NAME ROVCE	ES LEWS Chardia PHONE NO 743-648	32 Ext. 230 139	
Relinguished to _	Wham	P Date 4-29-97		
		Date		
Logged in by		Date		
1)1	DENTIFICATION IS DETER	MINED BY POLARIZED LIGHT MICROSCOPY	( AND DISPERSION STAINING)	
· '	OSH No.	Location/Description	Asbestos Type (or None)	Analyst Initials
1510 HOBSO~	NO. 1 B	ATH (UF-2)	7	67
9		FLOOR COVERING	NONE	W
10	MECH R	OOM( ILER EXHAUST	NONE	utc
11	STR RM	OFF CARAGE ECODE SHEATHING	NONE	hac
12	KITCHEN FLOOR COVER	IN 4/2 SQ RIPURPLE FLOWER IN	NONE	nor
13		(VF-3)	NONE	war
14	DINING RO	SOM, WALL BOARD UNDER	NONE	wa
15	BATH NO WHITE N/1		NONE	war
16	DATE OIL	JER VF-4 NOTAMEND IN CORNER	NONE	noz
nalysi(s)nalysi(s)esults Logged	Date Date			

### 1899 North Hobson Avenue

	ir. Eng. & Remediation Detachment By LICENSED INSPECTOR(S)  Building 1510	H0B50/C Date:	4/29/97
INSPECTOR JAM	ES LEWIS DHECLICENSE NO 2/686	EXPIRATION DATE	8/20/97
INSPECTOR	DHEC LICENSE NO	EXPIRATION DATE	, ,
NOTIFY OF RESUL	TS NAME ROVE Chardia PHONE NO. 743-648	2 EX 230-139	
	vo Camp Date 4-29-57		
Relinquished by	nes Lewis Date 4/29/97		
Logged in by	Date		
(IDEN	NTIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY	AND DISPERSION STAINING)	·
Sample OSI No. No.	ocation/  lescription	Asbestos Type (or None)	Analyst Initials
1510 HOBSON 17	BATH NO 4 WALLPAPER (WP-3) BLACK + WHITE SPRIPS	NONE	WAS
18	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		wa
19	BATH NO 3 WHITE W/GRAY STRIPS		w
20		NONE	war
naiyst(s) nalyst(s) esults Logged	Date Date		

1899 North Hobson Avenue

	LICENSED INSPECTOR(S):	Date:	4/30/97	
INSPECTOR James Lew	DHEC LICENSE NO. 21686	EXPIRATION DATE 8/20/97		
INSPECTOR	DHEC LICENSE NO.	EXPIRATION DATE		
NOTIFY OF RESULTS	NAME James Lewis PHONE NO. 743-2821 ex	a. 139		
Relinquished to	y 1. Smt Date 4-30-97			
Relinquished by Jon	Luin Date 4/30/97			
Logged in by (IDENTIF)	Date CATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)		
Sample OSH No. No.	Location/Description	Asbestos Type (or None)	Analyst Initials	
1510 Hobson- 21	Crawl space duct insulation (TSI)	NONE	W	
1510 Hobson- <b>22</b>	Crawl space duct insulation (TSI)	NONE	WZ	
	^			
Analyst(s) Analyst(s) Results Logged	Owf 5-1-9)  Date  Date  Date	!	<del></del>	

1899 North Hobson Avenue

		c. & Remediation Detachment Building CENSED INSPECTOR(S)	1510 h	Date: مره د میره	5/1/97
		TURRAT DHEC LICENSE NO. 2	7/687	_ EXPIRATION DATE	3/21/9
INSPECTOR	\	DHEC LICENSE NO		EXPIRATION DATE	
NOTIFY OF	RESULTS. N	AME Rover Charpia PHONE NO	. 743-6482 Ex	L 230	
Relunquished	to finney	1. Amb Date 5-01.	97		
Relinquished			<del></del>		
Logged in by		Date			
	(IDENTIFIC.	ATION IS DETERMINED BY POLARIZED LIGHT VIN	CROSCOPY AND	DISPERSION STAINING)	<del>,</del>
Sample No	OSH No.	Location/Description		Asbestos Type (or None)	Analyst Initials
1570 HOR104		ATTIC INSULATION  GRAY/WHITE		NONE	W
1510 Habson -24		DUCT TSI , BLACK MASTE & CLOTH (ATTIC)		NONE	w
1570 HOBSO.U -25		PARK BACKING FROM INSICA (V, 440R BAKKELL)	TIGAL	NONE	wr
1510 1406511-N -26	2	MATERIAL (BEOWNISH / P. ACK)		NONE	w
Anaiyst(s)	Jan	Date <u>5-2-97</u>		1	
Results Logged		Date			

#### 1899 North Hobson Avenue

### North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION

"Z" QUARTERS "Z"

	Envir. Eng. & Remediation Detachment Building 1570 Hos	SSON AVE Date:	2/10/98
INSPECTOR Z	BRUCK MURRAY DHECLICENSE NO 2/687	EXPIRATION DATE	8/20/01
INSPECTOR	Times Lewis DHEC LICENSE NO 21686	EXPIRATION DATE	8/20/48
NOTIFY OF RE	SULTS NAME BUCK MURRAY PHONE NO EXT.	234	
Relinquished to	1. 1. And Date 2-12-98		
Relinguished by	Bed 2 Date 2/11/98		
Logged in by	Date		
	IDENTIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)_	
Sample No.	No. Location/Description	Asbestos Type (or None)	Anaiyst iniuals
1510 HOBSON	SHATE SINITE FEVERING KITCHEN	]	
-27	SOIL, CRAWL SPACE	NONE	J.J. J.
-کړ	CRAWL CDACK	CHRYSOTILE	011
	SHEET VINTL FLOORING, BATH!	6	
-27		NUNE	1.2 S.
-30	SHEET VINGL FLOORING, KITCHEN, MULTI-LAYERD	NONE	4. J. S.
-31	SHELFROCK W/ FOINT COMPOUND & TADE,		111
	SHELTROCK W/SELT COMPOUND ATALE	NONE	J. S.
- 32	CLOSET CORNER	NONE	add.
-33	BELOW CITAIR RAIL, BEHIND OUTLET PLATE	NONE	111
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	SHELTROCK, WI JUNT COMPOUND & TAPE	VONE	
-34	1strour CLOSET UNDER STAIRS_	NONE	1.3.8
0	11 26	V	
Anaiyst(s)	1 Smith Date 2-12-98		
Analysi(s)	Date		
Results Logged	Date		

#### 1899 North Hobson Avenue

### North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION

ASBESTOS IDENTIFICATION	"S" 1 N
From. (Project) Envir. Eng. & Remediation Detachment Building 1510 SAMPLES TAKEN BY LICENSED INSPECTOR(S).	
INSPECTOR BRUCE MURCAY DIECLICENSE NO 2/687	_ EXPIRATION DATE 8/20/98
INSPECTOR TAMET LEWIS DHECLICENSE NO 2/636	EXPIRATION DATE 8/20/48
NOTIFY OF RESULTS. NAME <u>bluck MURRY</u> PHONE NO <u>fx</u> .	234
Relinquished to 12 4mb Date 2-12-98	
Relinquished by Sun May Date 2/11/48	
Logged in by Date	
(IDENTIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)
Sample OSH Location/Description	Asbestos Type Analyst (or None) Initials
-35 WINDOW GLAZING WINDOW BY BACK DOOR	NONE S.J.
Analysi(s) Date 2-12-98  Analysi(s) Date	

Results Logged

Date

### ASBESTOS SURVEY 1516 HOBSON AVENUE, QUARTERS "Y" CHARLESTON NAVAL COMPLEX CHARLESTON, S.C.

#### 1. **DESCRIPTION:**

Unit is 3783 square feet. Built in 1943. Exterior is transite siding. Roofing material is asphalt shingle. Quarters "Y" and Quarters "Z" make up one duplex. Many materials in both units are of the same homogeneous group.

#### 2. FINDINGS:

Thirteen homogeneous materials were identified as suspect Asbestos Containing Material (ACM). Of the 13 materials, 2 were confirmed to contain asbestos, 4 were assumed to contain asbestos, and 7 were found to be asbestos free.

#### CONFIRMED ACM

- 1. PIPING TSI, crawl space and attic (piping in attic may be partially covered by attic insulation)
- 2. SOIL, in crawl space (loose TSI remnants)

#### ASSUMED ACM

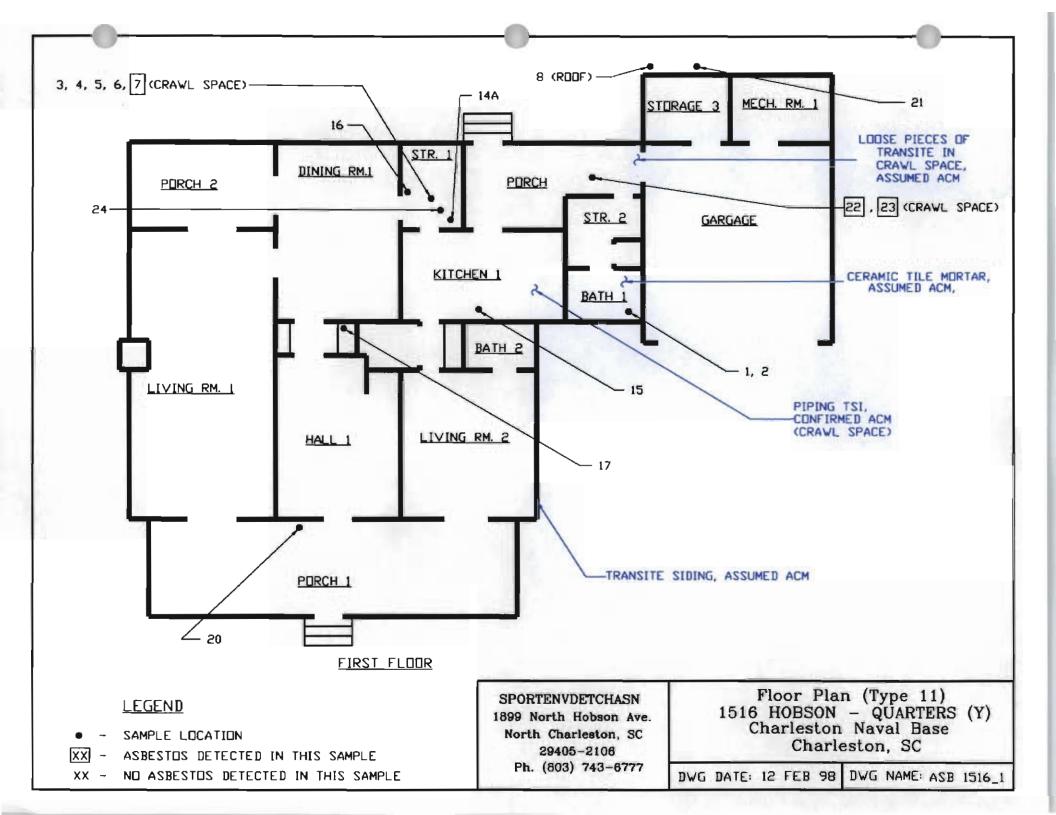
- 1. TRANSITE SIDING, house exterior
- 2. TRANSITE SIDING, within enclosed porch
- 3. TRANSITE, loose pieces of siding in crawl space
- 4. CERAMIC TILE MORTAR, bathroom 2, 3, and 4

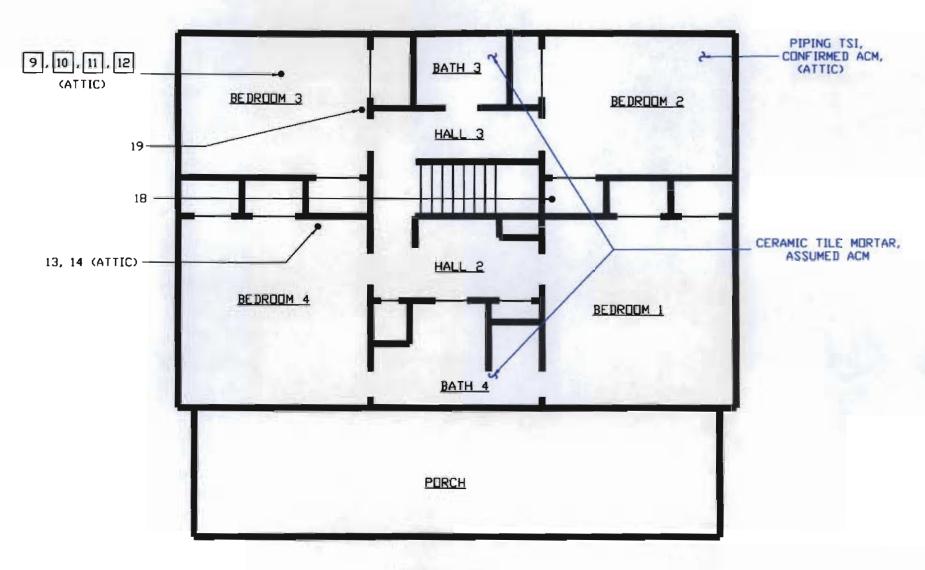
#### ASBESTOS FREE

- 1. WALLPAPER, bathroom # 1
- 2. LOOSE SHEETROCK, loose pieces in crawl space
- 3. SOIL, in crawl space
- 4. FIREPROOF SHEATHING, garage, (of same homogeneous group as sheathing in HD-23 houses, samples taken in those houses)
- 5. SHEET VINYL FLOORING, kitchen and storage room 1
- 6. WALLBOARD, living room # 1, living room # 2, hall # 1, dining room, kitchen, below chair rail
- 7. WINDOW GLAZING

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1516-HOBSON-7 1516-HOBSON-9 1516-HOBSON-9	Y Y Y	TSI, PIPING, crawl space and attic	125 LF	l	YES	D	10	REMOVE	NOTE: there is also fiberglass piping tsi in the crawl space
1516-HOBSON-22 1516-HOBSON-23	Y Y	SOIL, in crawl space, TSI remnants	2000 sq. ft.	1	YES	SD	100	REMOVE	
ASSUMED	A	MISC. TRANSITE SIDING, house exterior	*	*	*	*	*	*	* assessment not required on exterior materials
ASSUMED	A	MISC. TRANSITE, loose pieces in crawl space	5 sq. ft.	8	NO	Ď	100	REMOVE	The second secon
ASSUMED	A	MISC. TRANSITE SIDING, within enclosed porch	160 sq. ft.	8	NO	G	0	O&M	
ASSUMED	Α	MISC., CERAMIC TILE MORTAR, bathrooms 1, 2 and 3	410 sq. ft.	7	NO	G	<1	REPAIR O & M	< 1 sq. ft. damaged in bathroom #4





#### SECOND FLOOR

#### **LEGEND**

- SAMPLE LOCATION
- XX ASBESTOS DETECTED IN THIS SAMPLE
- XX NO ASBESTOS DETECTED IN THIS SAMPLE

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor Plan (Type 11) 1516 HOBSON - QUARTERS (Y) Charleston Naval Base Charleston, SC

DWG DATE: 12 FEB 98 DWG NAME: ASB 1516\_2

1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

		ng. & Remediation Detachment Bldg./Vessel 1516 Hobsel LICENSED INSPECTOR(S):	Date: 4-30-97					
INSPECTOR	James Lewi	DHEC LICENSE NO. 21686	EXPIRATION DATE 8/20/97					
INSPECTOR		DHEC LICENSE NO	EXPIRATION DATE					
	IOTIFY OF RESULTS: NAME James Lewis PHONE NO. 743-2821 ext 139							
Relinquished	delinquished to firming 1. And Date 4-30-97							
Relinquished	ox forms	2 Lemin Date 4/30/91)						
Logged in by/	(IDENTIFIC	Date  CATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)					
Sample No	OSH No.	Location/Description	Asbestos Type Analyst (or None) Initials					
1516 Hobson-I		Bath no 1 Wallpaper ( Gray/white) WP-5	NON - WAR					
t516 Hobson-2		Bath no 1 Wallpaper ( Gray/white) WP-5	NONE WA					
1516 Hobson-3		Crawl space, Black piping insulation (TSI)	NONE WAS					
1516 Hobson-4		Crawl space, sheetrock on ground	NONE ax					
1516 Hobson-5		Crawl space, sheetrock on ground	NONE M					
1516 Hobson-6		Crawl space, Soil	NONE MY					
1516 Hobson-7		Crawl space, Pipe insulation (TSI)	CHRYSOTILE MI					
1516 Hobson-8		Roof Material (Green shingle)	NONEM					
$\frac{1}{\text{palyst(s)}} \frac{1}{\text{Date}} \frac{5-1-9}{\text{Date}}$								

Results Logged

Date -

1899 North Hobson Avenue

		ng. & Remediation Det LICENSED INSPECTO		ig <u>1576</u>	140820/I	Date:
INSPECTOR	R. F. Ruck	Mienny 1	HEC LICENSE NO	2 1587	EXPIRATION D	ATE 3/21/20
INSPECTOR	₹				EXPIRATION D	ATE
NOTIFY OF	RESULTS.	NAME Rovee Charpia	PHONE	NO. <u>743-6482 I</u>	Ext. <del>230</del> 27 3 3-4	
Relinquished	to frame	1 Amb D	Date 5-0/	-97		
Relinquished	// 12		Date	20		
Logged in by			Date			
	(IDENTIFE	CATION IS DETERMINED	BY POLARIZED LIGHT	MICROSCOPY A	ND DISPERSION STAININ	(6)
Sample No.	OSH No.	Loc	cation/Description		Asbestos Type (or None)	Analyst Initials
1516 HORSING -9		ATTE	SI (WAINE, CH	eciated Parke	C HRYSÓ	TILE WOR
1516. 150R(0X) -12		ATTIC STRATE PLAY TO	(Commerce Commerce	euserka Politice	CHZYSOT	ILE WAR
15.15 2068014		FTERM PINE TS	SATT STORY	( د	CHRYSOT	THE WA
151 5 18062001 -12		STENEY PIPE TS	1 (WKITEHAM	ا ۱۸ ۱۸ کورن	CHRYSOT	TUMZ
15716 HOGISON -15		ATTIC. INSULATION (	5004 (mm 14)		CIRYS OF	Henr
1514 14081-01 -14			1		NONE	= WIC
				-		
Analyst(s)		Cuy Date 5	2-97			
Analyst(s)	/ 1	Date				
Results Logge	ď	Date				

### ENVIRONMENTAL ENGINEERING AND REMEDIATION

### DETACHMENT CHARLESTON

#### 1899 North Hobson Avenue

#### North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION

QUARTERS "Y

From. (Project) SAMPLES TAI	Envir. Eng. & Remediation	on Detachment Building / ECTOR(S)	516 Holson Dat	e: <u>2/10/98</u>
INSPECTOR _	BRUCE MURRAY	DHEC LICENSE NO 216	87 EXPIRATION DAT	E 3/20/93
			686 EXPIRATION DAT	, ,
NOTIFY OF RE	ESULTS. NAME Beve !	MURRAYPHONE NO _	£x1. 234	
Reimquished to	J. J. Smith	Date	<u>g-</u>	
Relinquished is	bull Ly	Date 2/11/93		
Logged in by		Date		
	(IDENTIFICATION IS DETERM	MINED BY POLARIZED LIGHT MICRO	DSCOPY AND DISPERSION STAINING)	<del></del>
Sample No.	OSH No	Location/Description	Asbestos Type (or None)	Analyst Initials
1516 -Harson	ļ.	HE FLORING, KITCH	٠ ٠ ٠ ٠ ١ ١	( <u>F</u>
- 14A	<u> </u>	m / (Possible Multi-	<u> </u>	Q.J. A.
-15	(POSSIBLE MUL	TI. LAYERS)	NONE	01.1.
-16	· _	W/ JOINT COMPOUND +		Q.J.S.
-17	CLOSET WALL	L CORNER COMPOIND & TAP		0.1.1
-18	1	ALL CORNER	NONE	11.1
-17	I -	TUINT COMPOUND,	NONE	1.18.
-20	FRONT DOOR	R TO HALL I	NONE	11.1
- 21	STO RAGE	NO 3	NONE	1.1.1.
Analyst(s)  Analyst(s)  Results Logged	Date	2-/2-98		V

#### 1899 North Hobson Avenue

North Charleston, South Carolina 29405-2106
ASBESTOS IDENTIFICATION

QUARTERS

INSPECTOR BY LICENSED INSPECTOR(S).  INSPECTOR BY LOWER DETERMINED DESCRIPTION DATE SLOPE  INSPECTOR THAT LEWS DETERMINED BY POLARIZED LIGHT MICROSCOPY AND DISPERSION STAINING  Relinquished to Date  IDENTIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AND DISPERSION STAINING  Sample OSH No. Location/Description Asbestos Type (or None) Initials  -22 MAINTE CHARMY CHARMY CHARMY SALE  SHELT VINYL FLOORING, STONAGE ROOM!  SHELT VINYL FLOORING, STONAGE ROOM!  NONE  131.
NOTIFY OF RESULTS NAME Reve Murray PHONE NO. Lat 234  Relinquished to Date  Relinquished by Rully Date  (IDENTIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AND DISPERSION STAINING)  Sample OSH No. Location/Description Asbestos Type (or None)  No No. Soil CRAWL SPACE 30%  LOCATION IS CHARLES I. J.
Relinquished to Date  Relinquished by Rull Date    Date
Relinquished to Date  Relinquished by Band Grant Date    Date   D
Logged in by  Date  (IDENTIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AND DISPERSION STAINING)  Sample OSH Location/Description Asbestos Type (or None)  No No. Soic CRAWL SPACE 30%  CHRYSOTIFE (1.1.1.
Logged in by  Date  (IDENTIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AND DISPERSION STAINING)  Sample OSH Location/Description Asbestos Type (or None)  No No.   Soil   CRAWL SPACE   30%  CHRYSOTIFE   1.1.1.
Sample OSH Location/Description (or None)  Soil (PAUL SPACE 30%  CHRYSOTILE (1.1.1)
Sample OSH Location/Description  Asbestos Type Analyst (or None)  Soil (Analyst Frace)  Soil (Analyst Frace)  White CHAULIS (Arysotile 1.1.1.
No No. Location/Description (or None) initials  Soil, CRAWL SPACE  WHITE CHAWLEY CHRYSOTILE 1.1.1.
-22 TWHITE CHAULINY CHRYSOTILE J.J.S.
SOIC, CRAWI SPACE 10%  -23 SHEET VINYL FLOORING, STONAGE ROOM!  NONE 1.15.
-23 SOIC, CRAWL SPACE 10% CHRYSUTILE J.S.S. SHEET VINYL FLOORING, STONAGE ROOM! NONE J.J.
-24 SHEET VINYL FLOORING, STONAGE ROOM! NONE J.J.S.
Analystis) Liming I South Date 2-12-98  Analystis) Date

Results Logged

Date

### ASBESTOS SURVEY QUARTERS "T" 1531 HOBSON AVENUE CHARLESTON NAVAL COMPLEX CHARLESTON, S. C.

#### 1. **DESCRIPTION:**

Unit is approximately 4112 square feet and built to the type 10 floor plan in 1941. Exterior is concrete on bottom floor and wood siding on top floor. Roofing material is green composite shingle with felt paper. House is in good condition.

#### 2. FINDINGS:

Sixteen homogeneous materials were identified as suspect Asbestos Containing Material (ACM). Of the 16 homogeneous sampling areas, 1 was confirmed to contain asbestos, 5 were assumed to contain asbestos, and 10 were found to be asbestos free.

### **CONFIRMED ACM**

1. SHEET VINYL FLOORING mech. room # 1, hall #1, kitchen (brick design)

#### ASSUMED ACM

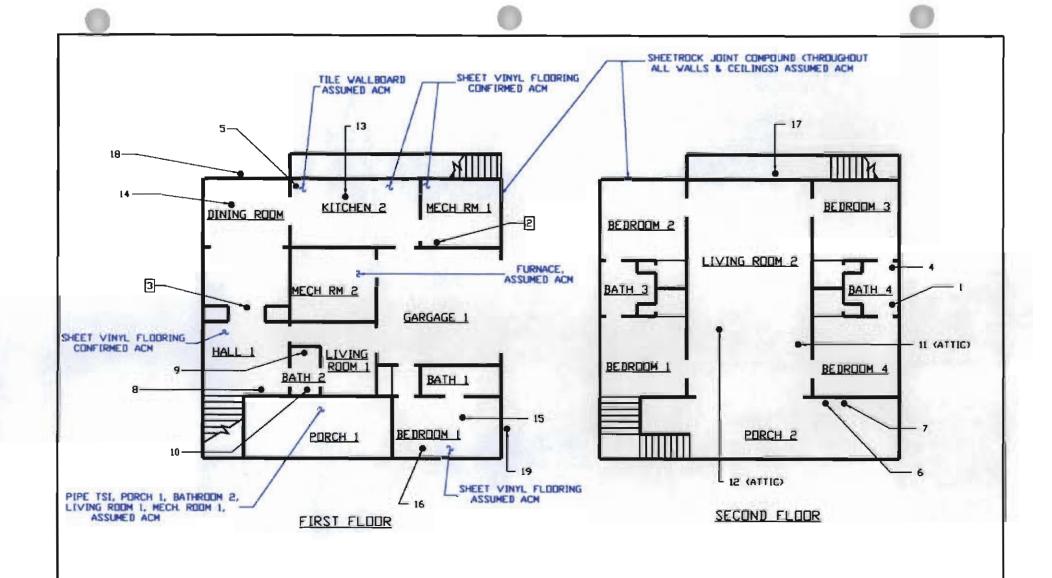
- 1. FURNACE, mech. room 2, see General Note 3
- 2. PIPE TSI, bathroom # 2, porch # 1, living room # 1, mech. room # 1, (labeled "contains asbestos")
- 3. SHEET VINYL FLOORING, bedroom and bathroom #1 (Samples taken in 1545 Hobson tested positive for asbestos)
- 4. SHEETROCK JOINT COMPOUND, Walls and ceiling throughout the house, see General Note 1.
- 5. TILE WALLBOARD (TRANSITE), kitchen and upstairs baths (Samples taken in type 9 houses tested positive for asbestos)

#### ASBESTOS FREE

- WALLPAPER, four different styles of wallpaper were noted, all were asbestos free
- 2. TEXTURED CEILING, blown or rolled on, living room # 2, kitchen, dining room, hall
- 3. TEXTURE WALL COVERING, blown or rolled on, laundry room, dining room living room, porch #2
- 4. CEILING TILE, 12x12, bedroom # 1
- 5. WINDOW GLAZING
- 6. TSI MATERIAL, loose in attic
- 7. CAULK, kitchen

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1531-HOBSON-2 1531-HOBSON-3	Y	MISC. SHEET VINYL FLOORING, mech. room # 1 (laundry), living room #1, kitchen	400 SQ FT	6	NO	G	<	O&M	
ASSUMED	Α	PIPE TSI, bathroom # 2, porch # 1, living room # 1, mech. room # 1	160 LF	6	NO	G	<1	REPAIR O & M	SEE GEN. NOTE # 5
ASSUMED	A	FURNACE	*	*	*	*	*	O&M	SEE GEN. NOTE #3
ASSUMED	A	WALLBOARD KITCHEN	165 SQ FT	8	NO	G	0	0 & M	
ASSUMED	A	MISC SHEETROCK JOINT COMPOUND	8500 SQ FT	6	NO	G	<1	REPAIR O & M	
ASSUMED	Α	MISC. SHEET VINYL FLOORING, bedroom # 1, bathroom # 1	170 SQ FT	6	NO	G	<1	O & M	

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet



### <u>LEGEND</u>

- SANPLE LOCATION

XX - ASBESTOS DETECTED IN THIS SAMPLE

XX - NO ASBESTOS DETECTED IN THIS SAMPLE

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor Plan (Type 10)
1531 HOBSON - QUARTERS (T)
Charleston Naval Base
Charleston, SC

DWG DATE: 03 FEB 98 DWG NAME: ASB 1531

1899 North Hobson Avenue

	Eng. & Remediation Detachment LICENSED INSPECTOR(S)	Building 1531	HOBSON Date	4/25/97
	ES LEWIS DHECLIC	ENSE NO <u>21686</u>	EXPIRATION DAT	E 8/20/41
INSPECTOR		ENSE NO	EXPIRATION DAT	
NOTIFY OF RESULTS	S NAME Rover Charme	PHONE NO 743-6482	<del></del>	
Relinguished to	1. Smith Date 1	4-28-97		
Relinquished by for	nos Lewis Date 4	128/917		
Logged in by	Date			
(IDENT)	FICATION IS DETERMINED BY POLAR	IZED LIGHT MICROSCOPY	AND DISPERSION STAINING)	<del></del>
Sample OSH No No	Location/Des	scription	Asbestos Type (or None)	Analyst Initials
1531 HOBSON -1	BATTACOM (UPSTA WALL PAPEN LAUNDRY ROOM	res) (WP-1)	NONE	WAY
1531 HOBSO~ -2	REDISH BRIUN 1 BRICE  HA  ( delta)	(VF-1)	CHRYSOTIL	e way
1531 HOBSUN -3	•	LL I JEL UF-1	CHRYSOTILE	e wor
1531 HUBSON -4	BATH ROOM UPSTAIR WALKPAPER	wP-1	NONE	wa
- 5	KITCHEN WALLPAPER	wP-2	NONE	NA
6	PORCH UPSTAIRS WALLPAPER	NP-2	NONE	NO
7	PORCH UPSTAIRS WALLPAPER	wP-3	NONE	var
8	LIVING ROOM HALL  MALLPAPER	! JEL WP-3	NONE	vor
Analyst(s)  Analyst(s)  Results Logged	Date 5-/-9	7		

### 1899 North Hobson Avenue

, . <u></u>	LICENSED INSPECTOR(S)  Building 15 3 1 1	1085012 Date:	4-25
INSPECTOR JAINE	55 LEWIS DHEC LICENSE NO. 21686	_ EXPIRATION DATE	8/20/9/
INSPECTOR	DHEC LICENSE NO	EXPIRATION DATE	
NOTIFY OF RESULTS	NAME ROVE Charpta PHONE NO 743-6482 Ex	K <u>230-1</u> 39	
	J. Smith Date 4-28-97		
	MES LEWIS Date 4/28/917		
Logged in by	Date		
(IDENT)	FICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)	
Sample OSH No No.	Location/Description	Asbestos Type (or None)	Analyst Initials
1531 Hogson	DOWNSTAIRS HALF BATH (WP-4)	NONE	NAC
10		NONE	ntc
11	BROWN IN COLOR	NONE	M
12	LOSSE MATERIAL IN ATTIC CORRUGATED PAPER	NONE	mar
13	KITCHER ROOL-ON ROUGH CEILING	NONE	noz
14	DIMING ROOM ROLED ON ROUSER CEILING	NONE	nt
15	DOWNSTAIR BEDROOM CEILING TILE	NONE	War
16		NONE	WAZ
Analyst(s)	Date 5-1-9)		
Results Logged	Date		

### Environmental Detachment Charleston 1899 North Hobson Ave., North Charleston, South Carolina 29405-2106

### ASBESTOS SAMPLES CHAIN OF CUSTODY RECORD

BUILDING NO.	1231 H	01350N	G/K 80 1				
INSPECTOR: Ja	mes Lewis		DHEC LIC	CENSE NO.: 21686	EXPI	RATION DATE:	8/20/98
INSPECTOR:			DHEC LIC	CENSE NO.:	EX	PIRATION DATE:	
Notify of Results:			ED LIGHT MICE	PHONE NO. 74 ROSCOPY and DISPE			
Sample I. D. #	DATE	TIME		ESCRIPTION	CROIOI	ASBESTOS	Analyst
						TYPE (or None)	Initials
1531	1/201		2 NO FLOOR	BY STAIRS	1		}
17	1994		שוחהשווש	G1471716	-	NONE	011
1531	,,		1	J.		110112	7 - 2 - 1
1531 HOBSON - 17 1531 HOBSON 19	130/9 4	•	15T FLO	GLHZING GLHZING BOR DIWING A MALES BEDROOM GLAZING	REA	NUNE	11.8.
1531 HOBSON	1/30/		IST FLOUR	mate BEDROO	2011		
12	198		WINDOW	- GLAZING		NONE	J.J.J.
						l	
				<del> </del>			
		<u>.</u> -					<u> </u>
N.							
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							$\vdash$
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					:		abla
) 			<u> </u>				
RELINQUISHE	BY:		, i	DATE: // 30/94	7		
RECEIVED BY :	The second	121		DATE:			
ANALYST(S): (	Tenimes o	1 Smit	M	DATE: 2/02/	98		
	1		· · · · ·		, <u>, , , , , , , , , , , , , , , , , , </u>		

### ASBESTOS SURVEY QUARTERS "S" 1545 HOBSON AVENUE CHARLESTON NAVAL COMPLEX CHARLESTON, S. C.

### 1. **DESCRIPTION:**

Unit is approximately 4112 square feet and built to the TYPE 10 floor plan. Construction date is approximately 1941. Exterior is concrete on first floor and wood siding on second floor. Roofing material is asphalt shingle. House is in good condition.

### 2. FINDINGS:

Fifteen homogeneous materials were identified as suspect Asbestos Containing Material (ACM). Of the 15 homogeneous materials 1 was confirmed to contain asbestos, 4 were assumed to contain asbestos, and 10 were found to be asbestos free.

#### **CONFIRMED ACM**

1. SHEET VINYL FLOORING, laundry room (mech. room # 1), living room 1, kitchen, bathroom 1, bedroom 1

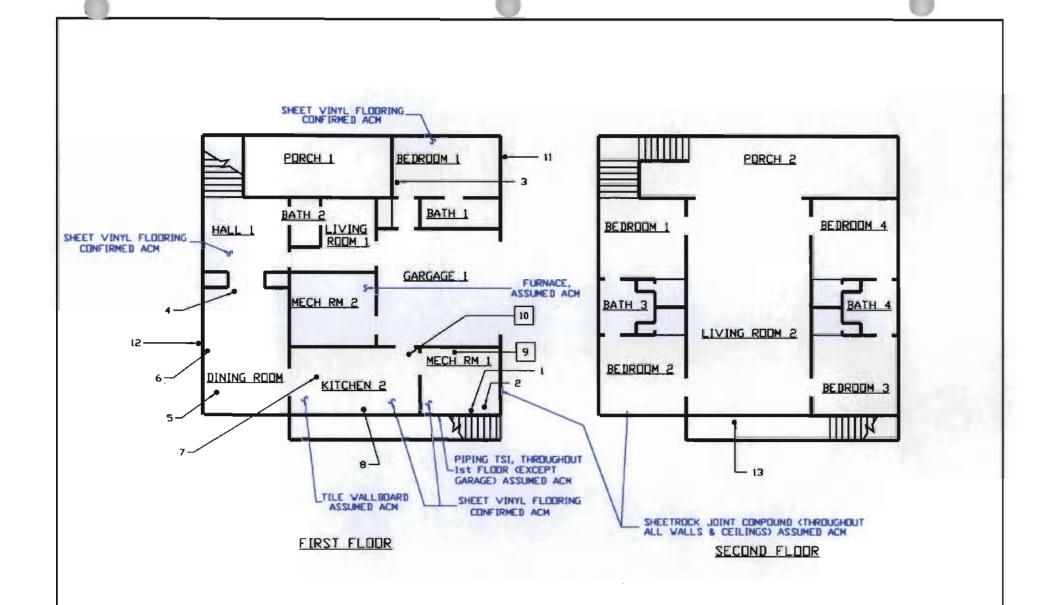
#### ASSUMED ACM

- 1. FURNACE, mech. room, see General Note 3
- 2. PIPE TSI, bathroom 2, porch 1, living room 1, mechanical room, kitchen, bedroom 1, bathroom 1, porch 1 (labeled "contains asbestos")
- 3. TILE WALLBOARD (TRANSITE), kitchen and upstairs baths (Samples taken in type 9 houses)
- 4. SHEETROCK JOINT COMPOUND, Walls and ceiling throughout the house, see General Note 1.

#### ASBESTOS FREE

- 1. WALLPAPER, five different styles of wallpaper were noted, all were asbestos free
- TEXTURED CEILING, blown or rolled on, living room # 2, kitchen, dining room, hall
- 3. TEXTURED WALL COVERING, blown or rolled on, laundry room, dining room, living room, porch 2
- 4. CEILING TILE, BEDROOM # 1
- 5. CAULK, kitchen
- 6. WINDOW GLAZING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1545 HOBSON-9	Y	MISC. SHEET	560 Sq Ft	6	NO	G	0	O&M	
1545 HOBSON-10	Y	VINYL					İ		
1545 HOBSON-2	N	FLOORING,		İ					
1545 HOBSON-3	N	bedroom # 1, bathroom # 1,			}				
	-	laundry room,							
		kitchen, living							
ASSUMED	A	MISC SHEETROCK JOINT	8500 Sq Ft	6	NO	G <1 REPAIR See general note # 1 O & M			
		COMPOUND,							
		walls and ceilings							
	1	throughout house						View of the second seco	
ASSUMED	A	PIPE TSI, bathroom 2,	160 LF	6	NO	G	</td <td>REPAIR O &amp; M</td> <td>See gen note # 5</td>	REPAIR O & M	See gen note # 5
		porch 1, living room 1, mech.					:		
		room 1, kitchen,		Professional Profession (Profession Profession					
		bedroom 1				Ė			
		bathroom1,					ŀ		
	ļ	porch 1					<u> </u>		
ASSUMED	A	TSI, FURNACE	*	*	*	*	*	*	See gen, note #3
ASSUMED	A	MISC. TILE WALLBOARD	180 Sq Ft	8	NO	G	0	O&M	
		(TRANSITE),		E-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1					
		kitchen		1				·	



### LEGEND

SAMPLE LOCATION

ASBESTOS DETECTED IN THIS SAMPLE

XX - NO ASBESTOS DETECTED IN THIS SAMPLE

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777

Floor Plan (Type 10) 1545 HOBSON - QUARTERS (S) Charleston Naval Base Charleston, SC

DWG DATE: 02 FEB 98 DWG NAME: ASB 1545

### 1899 North Hobson Avenue

North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION

	2	CODESTOS IDA	5	a	TR 5	
From. (Project) Envir. El SAMPLES TAKEN BY I		Detachment E	Suilding 1845	5 HOBSON	Date:	4/28/91
INSPECTOR JAMES	LEWIS	_ DHEC LICENS	ENO 21686	EXPIRA	TION DATE	8/20/97
INSPECTOR			E NO	EXPIRA	TION DATE	
NOTIFY OF RESULTS	NAME Rover Ch	JAME S PH	ONE NO. <u>743-6482</u>	Ext. 230		
Relinquished to Juning	1 Smit	Date	28/97			
Relinquished by frame	2 Lewin	Date 4/2	19V)			
Logged in by	·	Date	/			
(IDENTIFI	CATION IS DETERMIN	NED BY POLARIZED	LIGHT MICROSCOPY	AND DISPERSION	(DAIMING)	<u> </u>
Sample OSH No No		Location/Descript		4	stos Type None)	Analyst Initials
1545 HOBSON	LAUNDRY R WHITE ROUG		(WC-1)	NE	)NE	WA
- 2		ROLLED OUT	444 (N-F1)	NE	DNE	wtc
<del>-3</del>	PUWNSTAIR FLOOR CUVER	سان ساداد	(V = -1)	N 0	N∈	WR
- <b>4</b>	DINING-RM		(wc-1)		) N C	MA
- 5	DININGRA		(CC-1)	NO	$\omega \in$	NAZ
- 6	DINING R	M CEILIN	(cc-1)	40	$N \in$	WAZ
-7	KITCHEN CABINET	CAULK	(c1)	NO	₩ E	NOZ
-8	KITCHER CABINE	T CAULK	(c -1)	NO	NE	1107
Analyst(s)		<u> </u>	-C			
Results Logged	Date					

### Environmental Detachment Charleston 1899 North Hobson Ave., North Charleston, South Carolina 29405-2106

### ASBESTOS SAMPLES CHAIN OF CUSTODY RECORD

BUILDING NO.	1545 1	40B50N	CTR'S"	
INSPECTOR: Jan			DHEC LICENSE NO.: 21686 EXP	IRATION DATE: 8/20/98
INSPECTOR:			DHEC LICENSE NO.: EX	KPIRATION DATE:
Notify of Results: 1			PHONE NO. 743-2821 ED LIGHT MICROSCOPY and DISPERSION	T COL A TAILBIOL \
Sample I. D. #	DATE	TIME	DESCRIPTION	ASBESTOS Analyst
1545 HOBSON	1/3998		VINYL FLOOR LAUNDE YHTH  3 Rd & 4 20 Bother	> 1% CHOUSE THE ALA
1545 HOBSON			DESCRIPTION  DESCRIPTION  VINYL FLOOR LAUNDE YHIN  3 Ret & 420  LAYER BOTTON  KITCHEN  3 Ret 13077000  WINDOW CLAZING 151 FLOOR  BERRADH	> 190 CHRUSOTILE O.J.S
1545 HOBER			WINDOW CLAZING 151 PLOCE   BEDROOM H	NONE SIS.
1545 HUBSON	*** - **			l
1545 HOBSON	1		BY STAIRS  2" FLOOR	NONE JJ.S.
		, , ,		
RELINQUISHED	BY: Jam	us Leu	DATE: 1/30/98	7
RECEIVED BY :	1		DATE:	
ANALYST(S):	Jenines .	1. A	DATE: 2/02/98	

# ASBESTOS SURVEY 1600 HOBSON AVENUE, QUARTERS "G" CHARLESTON NAVAL COMPLEX CHARLESTON, S.C.

### 1. DESCRIPTION:

Unit is 6151 square feet. Built in 1903. Exterior is wood siding. Roof is metal roofing with an applied coating. Roofing samples were not obtained.

#### 2. FINDINGS:

Sixteen homogeneous materials were identified as suspect Asbestos Containing Material (ACM). Of the sixteen, seven were confirmed to contain asbestos, four were assumed to contain asbestos, and five were found to be asbestos free.

#### CONFIRMED ACM

- 1. PIPE TSI, located in basement, and crawl space
- 2. PIPE TSI RESIDUE, located in crawl space, TSl removed but all residue *not* removed, some pipe has fiberglass insulation, material under fiberglass is also suspect
- 3. PUTTY, located in basement, between drain pipe and brick NOTE: It was noted that work has been performed in the area of the basement (under the library area) after initial samples were taken. Drywall has been installed in the ceiling area of the basement, which conceals some of the ACM described above.
- 4. SHEET VINYL FLOORING, located in the utility room.
- 5. PLASTER, located on walls and ceilings throughout house.
- 6. FIBER BOARD, located in crawl space, 2' x 5' piece nailed to floor joist, use unknown
- 7. SOIL, loose pieces of TSI scattered throughout soil in crawl space

#### ASSUMED ACM

- 1. TILE WALLBOARD (transite), located in pantry
- 2. CEILING TILE, 12" x 12", located in dining room and living rooms 1 and 2
- 3. SHEET VINYL FLOORING, located in the foyer, stairwell #1, stairwell #2, kitchen, and the pantry area.
- 4. CERAMIC TILE MORTAR, in bathrooms 2, 3, 4, and 5

#### ASBESTOS FREE

- 1. STAIR TREAD ADHESIVE, located on stairs
- 2. WALLPAPER, various styles in the kitchen, bath 1, 2, 3, 4, and 5
- 3. OUTDOOR CARPET MASTIC, screen porch
- 4. SHEATHING, attic
- 5. WINDOW GLAZING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1600 Hobson-1 1600 Hobson-2	YES YES	MISC. SHEET VINYL FLOOR, utility room	150 sq. ft.	6	N	G	0	O&M	
ASSUMED	A	MISC. SHEET VINYL FLOOR, kitchen, foyer, stairwell 1 & 2, & pantry	230 sq. ft.	6	N	G	0	O & M	
1600 Hobson-8 1600 Hobson-13 1600 Hobson-16	YES YES YES	SURFACING, PLASTER, walls and ceilings throughout house	14910 sq. ft.	6	N	G	0	0 & M	
1600 Hobson-30 1600 Hobson-31	YES YES	PIPE TS1, basement	10 LF	1	Y	D	5	REMOVE	
1600 Hobson-38	YES	PIPE TS1, crawl space	25	1	Y	D	10	REMOVE	
1600 Hobson-40	YES	PIPE TSI Residue, crawl space	1 <b>80 LF</b>	1	Y	SD	100	REMOVE	
1600 Hobson-32	YES	MISC. PUITY, basement, between pipe & brick	2 sq. ft.	6	Y	G	5	REMOVE	
1600 Hobson-36	YES	MISC. FIBERBOARD, crawl space	10 sq. ft.	8	N	G	0	REMOVE	2' x 5' piece nailed to floor joist, use unknown
1600 Hobson-37	YES	MISC. SOIL, loose TSI remnants in crawl space	1980 sq. ft.	1	Y	D	100	REMOVE	

continued on next page

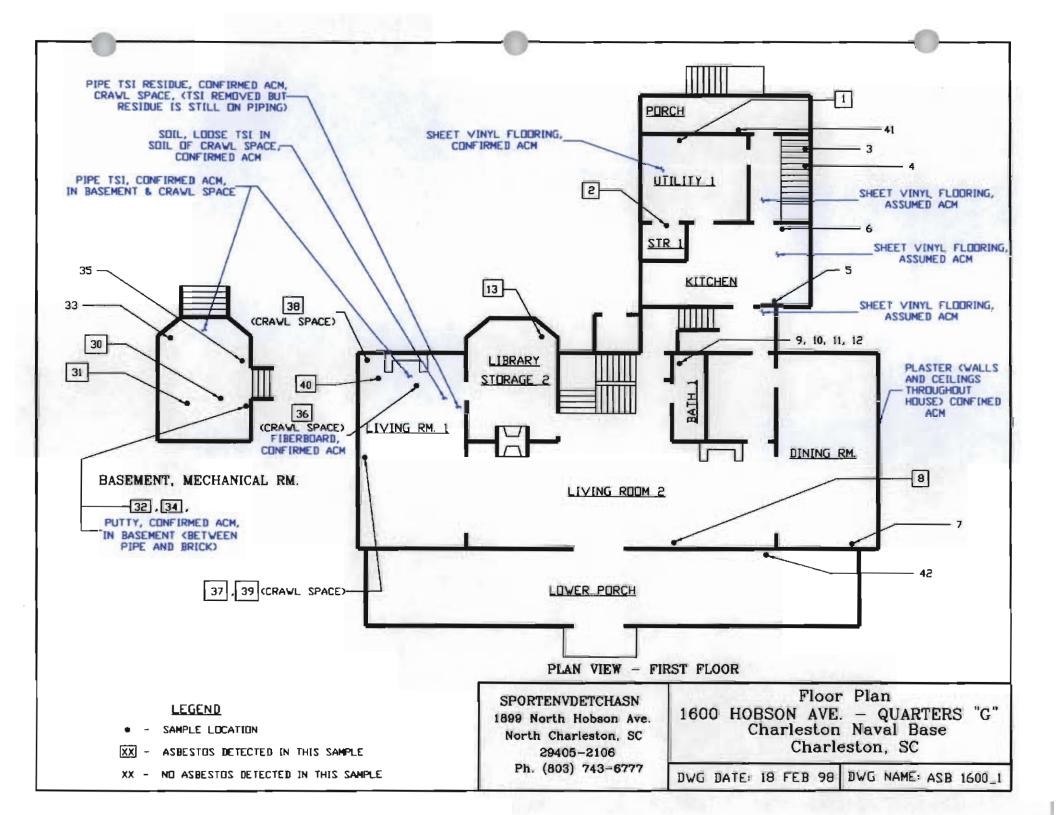
### ASBESTOS SURVEY BUILDING SUMMARY TABLE

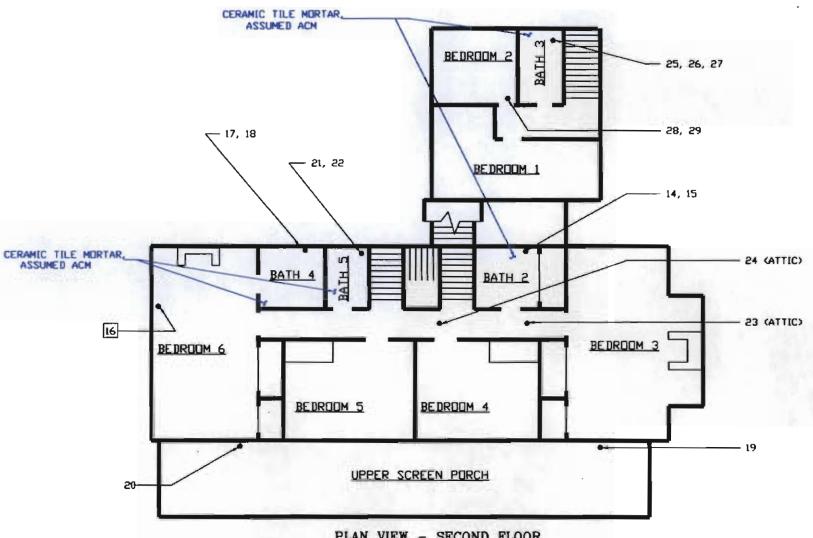
### CHARLESTON NAVAL COMPLEX HOUSING

### 1600 HOBSON AVENUE QUARTERS "G"

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
ASSUMED	A	MISC. TILE WALLBOARD, (TRANSITE) pantry	30 sq. ft,	8	N	G	0	O & M	
ASSUMED	A	MISC., CEILING TILE w/ MASTIC 12" x 12"	916 sq. ft.	8	N	G	0	O&M	Located in dining room and living rooms 1 and 2
ASSUMED	A	CERAMIC TILE MORTAR, in bathrooms 2, 3, 4, and 5	210 sq. ft.	8	N	G	0	O&M	

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet





PLAN VIEW - SECOND FLOOR

#### LEGEND

- SAMPLE LOCATION
- ASBESTOS DETECTED IN THIS SAMPLE
- XX NO ASBESTOS DETECTED IN THIS SAMPLE

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777

Floor Plan 1600 HOBSON AVE. - QUARTERS "G" Charleston Naval Base Charleston, SC

DWG DATE: 18 FEB 98 DWG NAME: ASB 1600\_2

### 1899 North Hobson Avenue

		g. & Remediation Detachment Building 1600 Ho	Date:	5/1/27
		LEW-3 DHEC LICENSE NO. 21686	EXPIRATION DATE _	5/1/97
INSPECTOR		DHEC LICENSE NO	EXPIRATION DATE	7 [
- NOTIFY OF R	ESULTS N	NAME Rovce Charpis PHONE NO 743-6482		
Relinquished to	W.	LAUX Date 5-5-97		
Relinquished by	Sam	es Levi Date 5-5-97		
Logged in by		Date		
	(IDENTIFIC	CATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY	AND DISPERSION STAINING)	<del></del>
Sample No.	OSH No.	Location/Description	Asbestos Type (or None)	Analyst Initials
1600 Hoksoni -1		VINGL FLOOR (VFI)	CHRYSOTILE	m
1000 Hogisti -2			CHRYSOTILE	WK
1600 1108301V		STAIR TREAD ABHESIUE (BACK STAIRS)	NONE	NOC
1600 HOBSON - 4	<u>~-</u>		NOUE	WAR
1600 1600		KITCHEN, WALL PAPER (WF)	HONE	NBR
1600 Harson -6	<del></del>		NONE	noz
1600 HORSON -7	~	DINING ROOM (DOUR TO PORCH)  CAUCK	NONE	Mgs
1600 Hogsall -8		LIVING ROOM PLASIER WALL	NONE CHRYSOTLE	WAZ
Analyst(s)  Analyst(s)  Results Logged		Date Date		

1899 North Hobson Avenue

From: (Project) Envir. En	ng. & Remediation Detachment Building 1600 Hoese	N (GINS & Date: _	1/97
SAMPLES TAKEN BY I	ICENSED INSPECTOR(S)	)	1
INSPECTOR Ruce	Muery DHEC LICENSE NO 21687	_ EXPIRATION DATE _	8/21/97
INSPECTOR	DHEC LICENSE NO	EXPIRATION DATE _	
NOTIFY OF RESULTS.	NAME Rovce Charpia PHONE NO 743-6482 Ex	at 230	
Relinquished to	LAUX Date 5-5-97		
Relinquished by	ex Leuric Date 5/5/97		
Logged in by	Date		
(IDENTIFI	CATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)	
Sample OSH No. No.	Location/Description	Asbestos Type (or None)	Analyst iniuals
1600 Hoëson!	BATHROUM / NAUFAFER WF-Z	NONE	NOV
1600 HOBSON -10		HONE	wor
1600 Hodsen) -11	EATTHOOM I WALLANDER BORDER	HONE	MR
/600 HD450VI -12		NONE	N.
1600 Hogson -13	STORAGE ROOM #2 PLASTER (WALL)	CHRYSOTILE	M
1600 HOBSON -14	BATTROOM # 2 WALL PAPER (WP3)	NONE	NAZ
1600 Ho6502)		NONE	Mar
1600 Horson 16	BERROOM #6 PLASTER (WALL)	NONE CHRYSOTILE	MZ
Analyst(s)	aupate 5-5-9>		
Analyst(s)	/ Date		
Results Logged	Date		

### 1899 North Hobson Avenue

From: (Project) SAMPLES TA	Envir. En KEN BY L	g. & Remediatio	n Detachment	Building	1600	Hosser	<u>√</u> Da	ite: <u>5/1/</u>	97
INSPECTOR	Bruck	MURRAY	DHEC LICI	ENSE NO.	2/687	E.	XPIRATION DA	TE <u>8 /</u> 21,	<u> (42</u>
INSPECTOR	<u>.</u>						XPIRATION DA	, ,	
NOTIFY OF R	ESULTS: 1	NAME Rovce C	harpia	PHONE NO	743-648	2 Ext. 230	)		
Relinquished to	<u>. W.</u>	LAUX	Date	5-5-0	7 >				
Relinquished b	Y Glanus	Lowin	Date <u>5/</u>	5/97					
Logged in by			Date						
	(IDENTIFIC	CATION IS DETERM	INED BY POLARI	ZED LIGHT M	ICROSCOPY	AND DISI	PERSION STAINING	3)	
Sample No.	OSH No.		Location/Des	cription			Asbestos Type (or None)	I .	alyst tials
1600 HDR50N -17		BATHMOOM WALL PAR					NON	EV	A
1600 HO630N			• '	1	·		NONG	<u>-</u> [w	tc
1600 robson -19	-	UPPÉR SCRÉG OUTDEOR CARVET M	EN PORCH				NONE	W	Az
-50 HO&20:N							NONE	(/\	AC
1600 160830N	_	BATHROOM WALL MAR	#5 (a	,p-5-)		,	NONE	W	7
-55 HOBSON -25	_				,	,	SONE	W	AU
1600 Hogson) -23		ATTIC SHEATTHIN	16				JONE	- 1	AZ
1600 HOB33N -24	<del></del>					٨	10N€ 10N€	U.	Ø2
Analyst(s)		Date _							
Analyst(s)		Date _	<del></del>						
Results Logged	l	Date							

### 1899 North Hobson Avenue

		g. & Remediation i		Building	1600	HOBSO	<u>√</u> [	Date:	5/1/97
		MURRIY	, .	ENSE NO 🗿	21687	ЕХ	<b>PI</b> RATION D	ATE <u>.</u>	8/21/97
INSPECTOR		_					PIRATION D		
NOTIFY OF I	RESULTS. 1	NAME Rovce Cha		PHONE NO					
Relinquished t	10 W,	LAUX	_ Date	-5-9	2_				
Relinquished t	by frimer	Lui	Date <u>5/</u>	5/97					
Logged in by			_ Date						
	(IDENTIFIC	CATION IS DETERMIN	ED BY POLARIZ	ZED LIGHT M	ICROSCOPY	AND DISPI	ERSION STAININ	1G)	<del></del>
Sample No	OSH No.		Location/Desc	enpuon			Asbestos Type (or None)	; 	Analyst Initials
1600 HOBSON -25		BATTHOOM &	#3 (wp6	:>		^	IONE	_	note
-26 HORSON				1	-		ONE		NA
1600 HORSON -27		BATTHEOM #3	,	)		N	o~←	•	nor
1600 1600 - 28		ATTIC COVER	BEDROOMS	142)		N	ONE	-	war
1600 HORSON -29		ATTIC COVER		_	REIN	^	VON (	<u> </u>	MAN
1605 HOCOUNT -30		BASEMENT 34 PIPE TS					RYSOTIL AMDSIT		WAR
1600 Hof 10 N - 3 j		1	J			_	RYSOTIL		un
1600 HORSON -32		MUD BETWEEN	DOAIN PO	t & BRICI	· · ·		RYSOTI.		was
Analyst(s)	X	Date	<u>5-5-</u> 9°	)					<del></del>
Regults Logge	<i></i>	Data							

1899 North Hobson Avenue

From: (Project) Envir. Eng. & Remed SAMPLES TAKEN BY LICENSED I	liation Detachment Building 1600 Here NSPECTOR(S)	Date	<u> </u>
INSPECTOR BRUKE MURRAY	DHEC LICENSE NO 2/687	EXPIRATION DATE	7/2//97
INSPECTOR JAMES LEWIS	DHEC LICENSE NO 2/687  DHEC LICENSE NO 2/686	_ EXPIRATION DATE _	8/20/97
NOTIFY OF RESULTS: NAME Ro			
Relinquished to W. LAU	Date 5-5-97		
Relinquished by famesolum	Date 5/5/97		
Logged in by	Date		
(IDENTIFICATION IS DE	TERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)	·····
Sample OSH No. No.	Location/Description	Asbestos Type (or None)	Analyst Initials
	MOCK MUD	NONE	w
1600 RASKA	ENT TSI	CHRYSOTILG	
-34 MUB	FROM BETWEEN DRAW PIFE, BRICK	CROCIDOLITE	MAZ
11 7706 3000 1	EDCE MUD	None	nor
			, , ,
			<u> </u>
	Date 5-5-9)		
Results Logget	)ate		

1899 North Hobson Avenue

		ICENSED INSPECTOR(S)  Building 1600 H	UBSON Date:	5/6/917
INSPECTOR _	<u>TAMES</u>	LEWIS DHECLICENSE NO 2/686	_ EXPIRATION DATE _	8/21/97
NOTIFY OF R	<i>BRULE</i> ESULTS.	MURRAY DHEC LICENSE NO. 2/687  BRUE MURRAY  NAME ROYCE Charms PHONE NO 743-6482 Ex		8/21/97
Relinquished to	1			
Relinquished by	Sem.	May Date 5/6/97		
ogged in by		Date		
	(IDENTIFIE	CATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)	
Sample No	OSH No	Location/Description	Asbestos Type (or None)	Anaivsi Initials
1600 HOBSON 36		FIBER BOARD FOUND IN CRAWL SPACE BY CHIMMY UNDER LIVING RM	CHRYSOTILE	W
37		FROM WEST WALL BY LIVING RM 1	CHRYSOTILE	WOL
38		FROM WEST WALL BY LIVING RM    PIPE TSI CRAWL SPACE  UNDER LIVING RM NO    FOUND ON GROUND BEBELOW	CITRYSOTICE	M
39		FOUND ON GROUND BEBLOW  LIVING NO    PIPE SCRAPING FROM (HOT WATER	CHRYSOTILE	wa
40		OR STEAM) BELOW LIVING RM 1	CITRYSOTILE	m
Analyst(s)	4	Cutar 5-8-97		
Analyst(s)		Date		
Results Logged		Date		

1899 North Hobson Avenue

### North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION

From: (Project) Engin	Eng. & Remediation Detachment	Q74 Building 1600	25. G	3/11/98
SAMPLES TAKEN BY	LICENSED INSPECTOR(S)	PHIMING ASSOC	Date.	2/1/2/12
INSPECTOR Bevet	MURRAY DHECLIC	ENSE NO 2/6 # 7	EXPIRATION DATE	8-20-98
NSPECTOR	DHEC LIC	ENSE NO	EXPIRATION DATE	
NOTIFY OF RESULTS	NAME BELLE MURELY	PHONE NO. £x7.	234	
Relinquished to	Jane Date	2-17-98		
Relinquished by Bu	Date_ a	2/17/98		
logged in by	Date	, _ <del></del>		
(IDENTI	FICATION IS DETERMINED BY POLAR	IZED LIGHT MICROSCOPY	AND DISPERSION STAINING)	
Sample OSH No No.	Location/Des	scription	Asbestos Type (or None)	Anaiyst Initials
1600- HORSON				1 1 1
1600	WINDOW GLAZING	-	NONE	A.S.
HORSON - 42	WINDOW GLAZING		NONE	Q1 S.
			<del></del>	
nalyst(s)	South Date 2-17-98	L		
nalysi(s)	Date			
esults Logged	Date			

# ASBESTOS SURVEY TYPE "9" HOUSING CHARLESTON NAVAL COMPLEX CHARLESTON, S. C.

#### 1. DESCRIPTION:

The eight units listed below are built to the type 9 floor plan style. The eight units are 4071 square feet and have five bedrooms (except 161 Everglades has 4 bedrooms). Each unit has stucco and wood exterior with shingled roof. Year of construction is 1937 and 1938. All units are similar in construction and have materials that are homogeneous to all type 9 units. See individual Building Summary Tables for information on each unit. Quarters M, at 160 Everglades Ave (also a type 9 unit) was occupied and NOT INSPECTED.

<u>Address</u>	<u>Building No.</u>
150 Turnbull	Quarters "L"
152 Turnbull	Quarters "K"
160 Everglades	Quarters "M"
161 Everglades	Quarters "N"
1485 Hobson	Quarters "R"
1505 Hobson	Quarters "Q"
1565 Hobson	Quarters "P"
1599 Hobson	Quarters "O"

### 2. FINDINGS:

Eighteen homogenous materials were identified as suspect Asbestos Containing Material (ACM). Of the eighteen homogeneous materials, 7 were confirmed to contain asbestos (including 3 different styles of sheet vinyl flooring), 4 were assumed to contain asbestos, and 7 are asbestos free.

### **CONFIRMED ACM**

- 1. HVAC DUCT TSI, Throughout first floor, and garage area.
- 2. SHEET VINYL FLOORING, three different styles of sheet vinyl flooring were noted, see building summary tables for locations in individual units.
- 3. TILE WALL BOARD, (transite board) kitchens, not present in 150 Turnbull and 152 Turnbull
- 4. PIPING TSI, half bath, bedroom #1, laundry, mechanical room and garage area of first floor.
- 5. SHEETROCK JOINT COMPOUND, Walls and ceiling throughout all houses, see General Note 1.

### ASBESTOS SURVEY TYPE "9" HOUSING CHARLESTON NAVAL COMPLEX CHARLESTON, S. C.

### ASSUMED ACM

- 1. FURNACE gaskets, seals, etc. (see general note # 3)
- 2. FLOOR TILES (12 x 12) in Bath 3 of 1485 Hobson only
- 3. CEILING TILES (12 x 12) in 1485 Hobson only
- 4. CERAMIC TILE MORTAR

### ASBESTOS FREE

- 1. CAULKING, bathrooms and kitchen
- 2. WALLPAPER, various rooms
- 3. CARPET MASTIC
- 4. WALL COVERING (white rough finish)
- 5. WINDOW GLAZING
- 6. PLASTER, bathroom walls
- 7. BASEBOARD MASTIC

# ASBESTOS SURVEY CHARLESTON NAVAL COMPLEX HOUSING CHARLESTON, S.C.

#### **GENERAL NOTES**

- Many sheetrock walls and ceilings have joint compound applied to seams and nail holes.
   In some cases this joint compound tested positive for asbestos. The walls and ceilings that have asbestos containing joint compound applied must be considered as ACM in their entirety, even though the sheetrock itself may be non-asbestos.

   NOTE: Flaking paint on these surfaces could expose asbestos.
- 2. Cloth-like wiring insulation in all houses is a suspected asbestos containing material. Sampling of this insulation should be performed prior to any disturbance.
- 3. Many houses contain oil-burning furnaces and boilers, which may contain suspected ACM such as gaskets, seals, and asbestos board, etc. The condition and quantity of these materials could not be determined without disassembly. Sampling of these materials should be performed prior to any disturbance.
- Convenience samples were taken of various roofing materials. All samples were negative.
   However sufficient samples could not be obtained of all roofing material to rule out
   roofing material as non-asbestos.
- 5. The assessments of piping TSI and HVAC duct TSI are for readily accessible portions of the piping and ductwork only. It should be noted that much of these systems could exist in wall interiors and between floors and ceilings of adjoining floors. This report does not assess the amount and condition of TSI in these inaccessible areas but they should be considered prior to any renovation or demolition.
- Most of the sheet vinyl flooring found in these houses consists of multiple layers of flooring. Most of the flooring had at least one layer that was ACM. Also some sheet vinyl flooring was placed over floor tiles. In most cases these floor tiles are either assumed or confirmed ACM.
- 7. Items listed in the Building Summaries, as "CONFIRMED ACM" were proven to contain greater than one percent asbestos through bulk sampling and laboratory analysis.
- Items listed in the Building Summaries as "ASSUMED ACM" are assumed to be greater than one percent asbestos. Assumptions are based on past experience with similar materials.
- Items listed in the Building Summaries as "ASBESTOS FREE" are suspected asbestos
  containing materials that were found not to contain greater than one percent asbestos
  through bulk sampling and laboratory analysis.
- 10. Building Summary Tables only list CONFIRMED ACM and ASSUMED ACM.

### ASBESTOS SURVEY CHARLESTON NAVAL COMPLEX HOUSING CHARLESTON, S.C.

#### **GENERAL NOTES**

- 11. Definitions Of AHERA CATEGORIES (1 through 8) as used in building summary tables:
  - 1. Damaged or Significantly Damaged friable thermal system insulation.
  - 2. Damaged friable surfacing ACM.
  - 3. Significantly Damaged friable surfacing ACM.
  - 4. Damaged or Significantly Damaged friable miscellaneous ACM.
  - 5. ACM with potential for significant damage.
  - 6. ACM with potential for damage.
  - 7. Any remaining friable ACM or friable suspected ACM.
  - 8. Non-friable ACM.
- 12. Explanation of "CONDITION" as used in BUILDING SUMMARY TABLES:

#### **SURFACING and MISCELLANEOUS MATERIAL**

- <u>SIGNIFICANTLY DAMAGED</u> (material with one or more of the following characteristics)
  - (a) The surface is crumbling or blistered over at least one tenth of the surface if the damage is evenly distributed (one quarter if the damage is localized).
  - (b) One tenth (one quarter, if localized) of material hanging from the surface, deteriorated, or showing adhesive failure.
  - (c) Water stains, gouges, or mars over at least one tenth of the surface if the damage is evenly distributed (one quarter if the damage is localized).
- DAMAGED (material with the following characteristics)
  - (a) The surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over less than one tenth of the surface if the damage is evenly distributed (one quarter if the damage is localized).

#### GOOD CONDITION

(a) Material with no visible damage or deterioration, or showing only very limited damage or deterioration.

### ASBESTOS SURVEY CHARLESTON NAVAL COMPLEX HOUSING CHARLESTON, S.C.

### **GENERAL NOTES**

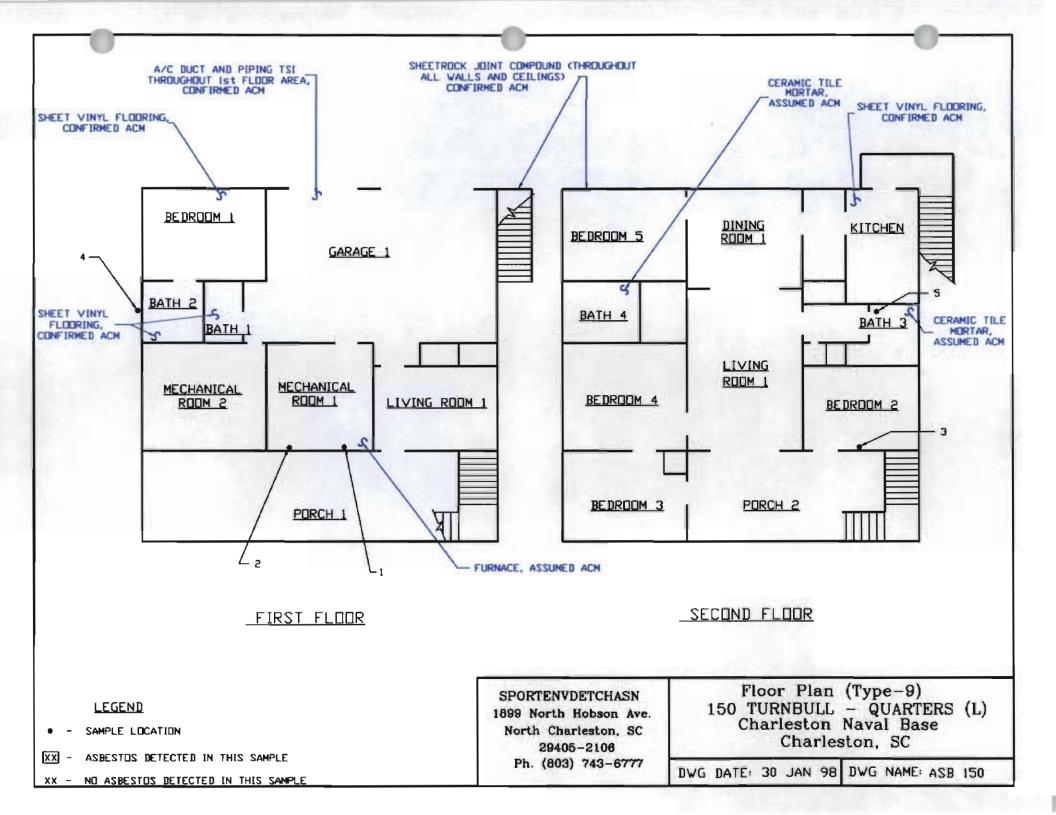
#### THERMAL SYSTEM INSULATION

- <u>SIGNIFICANTLY DAMAGED</u> (material with one or more of the following characteristics)
  - (a) Missing jackets on at least one tenth of the piping or equipment.
  - (b) Crushed or heavily gouged or punctured insulation on at least one tenth of pipe, duct, etc., if the damage is evenly distributed (one quarter if the damage is localized).
- DAMAGED (material with one or more of the following characteristics)
  - (a) A few water stains on less than one tenth of insulation with missing jackets.
  - (b) Crushed insulation or water stains, gouges, punctures, or mars on up to one tenth of the insulation if the damage is evenly distributed (or up to one quarter if the damage is localized).

### • GOOD CONDITION

(a) Material with no visible damage or deterioration, or showing only very limited damage or deterioration.

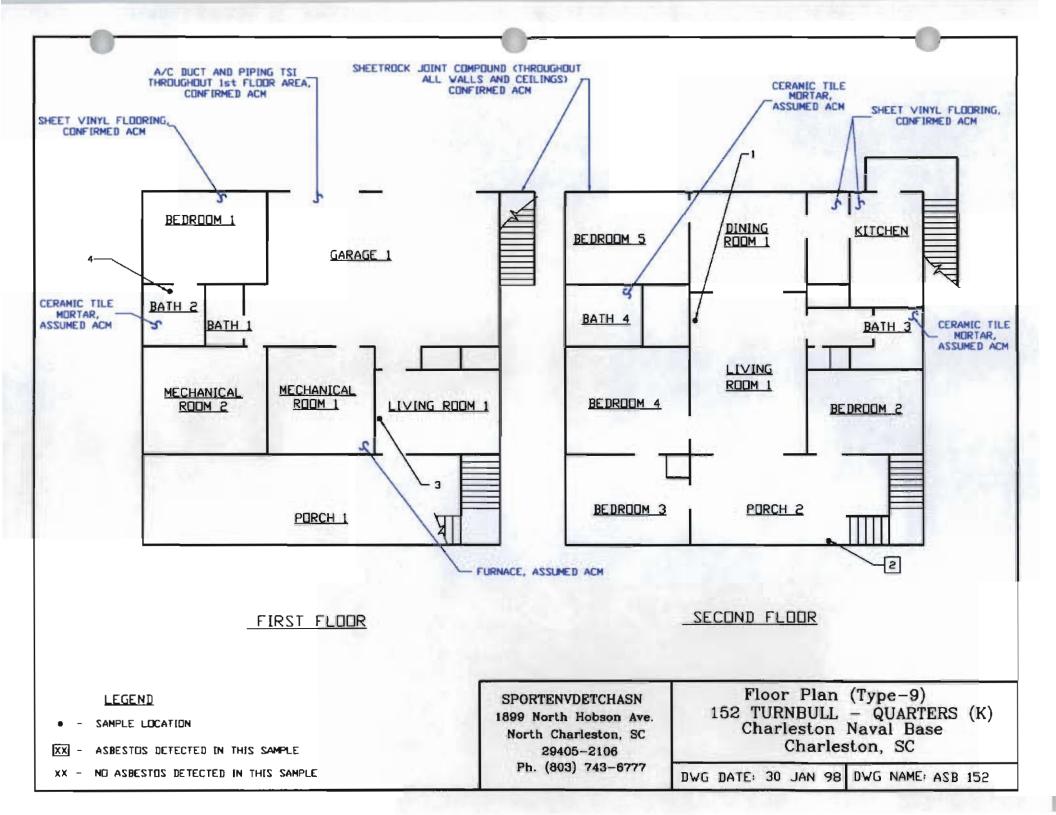
Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1485-HOBSON-2	Y	TSI, HVAC	700 Sq Ft.	1	YES	D	10%	REPAIR,	
1485-HOBSON-3	Y	DUCT						O&M	
1505-HOBSON-1	Y								
1505 -HOBSON-2	Y								
1599 -HOBSON-2	Y	MISC., SHEET	509 Sq Ft	6	NO	G	0	O&M	
1599-HOBSON-3	Y	VINYŁ						1	
		FLOORING,							
		kitchen, bedroom			r				
		1, bath #2							
1485-HOBSON-1	Y	TSI, PIPING 1 <sup>ST</sup>	140 LF	6	NO	G	< 1	REPAIR,	Gen. Note 5
		floor		1	<u> </u>			O&M	
152-TURNBULL-2	Y	MISC.	8200 Sq. Ft.	6	YES, only	G	</td <td>O&amp;M</td> <td>Approx. 6 sq. ft.</td>	O&M	Approx. 6 sq. ft.
150-TURNBULL-1	N	SHEETROCK	(Gen. Note 1)	•	where				damaged in mech.
150-TRUNBULL-2	N	JOINT		Ė	damaged				room
150-TURNBULL-3	N	COMPOUND,		)	1				
1565-HOBSON-1	N	walls and		1	<u> </u>				
1565-HOBSON-2	N	ceilings		1					
1599-HOBSON-I	N	throughout house							
######################################									
NONE	Α	TSI, FURNACE	*	*	*	*	*	*	* Gen. Note 3
NONE	Α	MISC,	450 Sq Ft	8	NO	G	0	O&M	
		CERAMIC TILE	-		GP		-		
	Quality of the state of the sta	MORTAR, all					-		
		bathrooms			:				



152 TURNBULL QUARTERS "K"

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1485-HOBSON-2	Y	TSI, HVAC	700 Sq Ft.	1	YES	D	10%	REPAIR,	
1485-HOBSON-3	Y	DUCT	-					O & M	
1505-HOBSON-1	Y								
1505 -HOBSON-2	Y								
1599 -HOBSON-2	Y	MISC., SHEET	509 Sq Ft	6	NO	G	0	O & M	***
1599-HOBSON-3	Y	VINYL	-						
		FLOORING,							
		kitchen, bedroom							
		1, bath #2							
1485-HOBSON-1	Y	TSI, PIPING 1 <sup>ST</sup>	140 LF	6	NO ,	G	<1	REPAIR,	Gen. Note 5
*****		floor						O & M	
152-TURNBULL-2	Y*	MISC.	8200 Sq. Ft.	6	NO	G	0	O & M	* Sample 152-
150-TURNBULL-1	N	SHEETROCK	(Gen. Note # 1)						TURNBULL-2
150-TRUNBULL-2	N	JOINT							contained sheetrock
150-TURNBULL-3	N	COMPOUND		E					joint compound / putty
1565-HOBSON-1	N								that tested positive for
1565-HOBSON-2	N								asbestos. This sample
1599-HOBSON-1	N								was obtained for wall
									covering, the wall
·····		····	,						covering was negative.
NONE	A	TSI, FURNACE	*	*	*	*	*	O & M	Gen. Note 3
NONE	Α	MISC,	450 Sq Ft	8	NO	G	0	O & M	
		CERAMIC TILE							
		MORTAR, all							
		bathrooms							

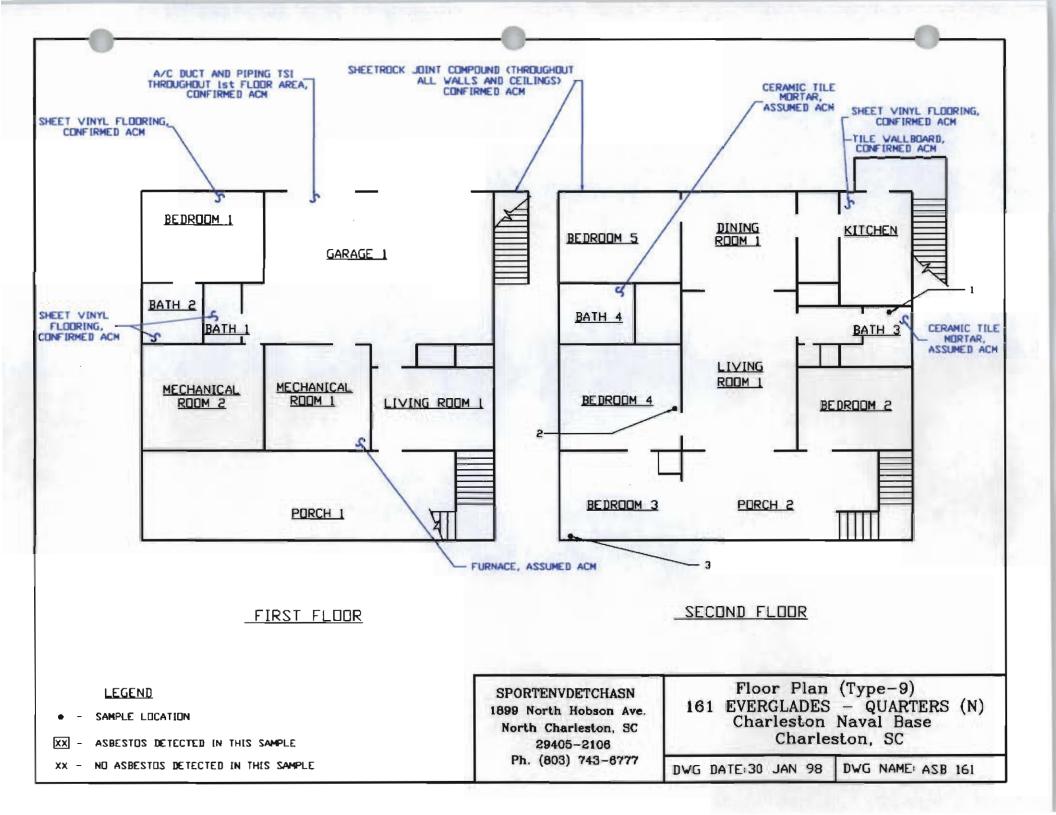
ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet



161 EVERGLADES QUARTERS "N"

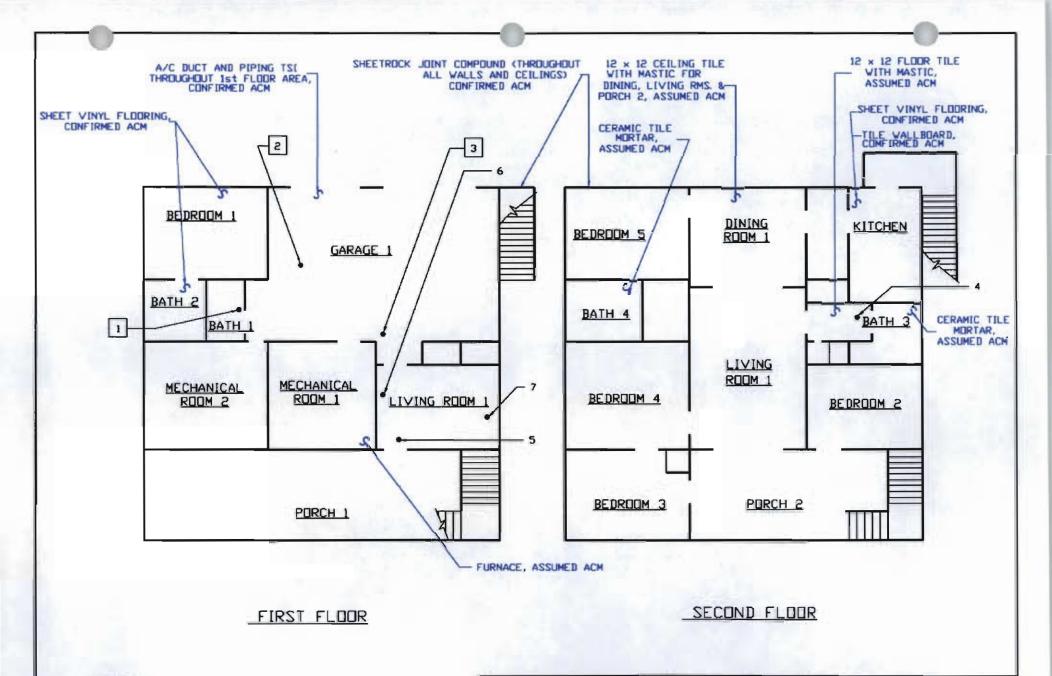
Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1485-HOBSON-2	Y	TSI, HVAC	700 Sq. Ft.	1	YES	D	10%	REPAIR,	
1485-HOBSON-3	Y	DUCT	-					O & M	
1505-HOBSON-1	Y								
1505 -HOBSON-2	Y								
1599 -HOBSON-2	Y	MISC., SHEET	509 Sq. Ft.	6	NO	G	0	O & M	
1599-HOBSON-3	Y	VINYL							
		FLOORING,					-		
		kitchen,							
	<u> </u>	bedroom 1							
1505-HOBSON-4	Y	SHEET VINYL	30 Sq. Ft.	6	NO	G	0	O&M	
1505HOBSON-5	Y	FLOORING,							
·····		Bath 2					ĺ		
1505-HOBSON-3	Y	MISC, TILE	150 Sq. Ft.	8	NO	G	0	O & M	
1565HOBSON-3	Y	WALLBOARD							
······································		kitchen							
1485-HOBSON-1	Y	TSI, PIPING 1 <sup>ST</sup>	1 <b>40 LF</b>	6	NO	G	< l	REPAIR,	Gen. Note # 5
		floor						0 & M	
152-TURNBULL-2	Y*	MISC.	8200 Sq. Ft.	6	NO	G	0	O&M	* Sample 152-
150-TURNBULL-1	N	SHEETROCK	(Gen. Note 1)						TURNBULL-2
150-TRUNBULL-2	N	JOINT							contained sheetrock
150-TURNBULL-3	N	COMPOUND							joint compound / putty
1565-HOBSON-1	N								that tested positive for
1565-HOBSON-2	N				-				asbestos. This sample
1599-HOBSON-1	N								was obtained for wall
									covering, the wall
									covering was negative.
NONE	Α	TSI, FURNACE	*	*	*	*	*	*	* See Gen. Note # 3
NONE	A	MISC,	450 Sq. Ft.	8	NO	G	0	O & M	
		CERAMIC TILE	-						
		MORTAR, all							
		bathrooms							

ABBREVIATIONS: ACM = Assestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet



1485 HOBSON QUARTERS " R"

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1485-HOBSON-2	Y	TSI, HVAC	700 Sq. Ft	1	YES	D	10%	REPAIR,	
1485-HOBSON-3	Y	DUCT	·					O & M	
1505-HOBSON-1	Y	ĺ		ĺ					•
1505 -HOBSON-2	Y								
NONE	A	MISC., FLOOR TILE, 12" x 12" bathroom #3	90 Sq. Ft.	6	NO	G	0	O & M	
1599 -HOBSON-2	Y	MISC., SHEET	509 Sq. Ft.	6	NO	G	0	O & M	
1599-HOBSON-3	Y	VINYL	-						
		FLOORING,							
		kitchen, bedroom							
***************************************		i, bath #2							
NONE	Α	MISC.,	890 Sq. Ft.	7	YES	G	0	O & M	
		CEILING TILE,							
		12" x 12"						******	•
1505-HOBSON-3	Y	MISC, TILE	150 Sq. Ft.	8	NO	G	0	O & M	
1565HOBSON-3	Y	WALLBOARD							
		kitchen							
1485-HOBSON-I	Y	TSI, PIPING 1 <sup>ST</sup>	140 LF	6	NO	G	<1	REPAIR,	Gen. Note 5
		floor				·····		O&M	
152-TURNBULL-2	Y*	MISC.	8200 sq. ft.	6	NO	G	0	O & M	* Sample 152-
150-TURNBULL-1	N	SHEETROCK	(Gen. Note 1)						TURNBULL-2
150-TRUNBULL-2	N	JOINT							contained sheetrock
150-TURNBULL-3	N	COMPOUND							joint compound / putty
1565-HOBSON-I	N								that tested positive for
1565-HOBSON-2	N								asbestos. This sample
1599-HOBSON-I	N								was obtained for wall
									covering, the wall
			#48#P***********************************	<u>:</u>				***************************************	covering was negative.
NONE	A	TSI, FURNACE	*	*	*	*	*	O&M	Gen. Note 3
NONE	A	MISC, CERAMIC TILE MORTAR, all bathrooms	450 SQ FT	8	NO	G	0	O & M	



LEGEND

SAMPLE LOCATION

XX - ASBESTOS DETECTED IN THIS SAMPLE

XX - NO ASBESTOS DETECTED IN THIS SAMPLE

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777

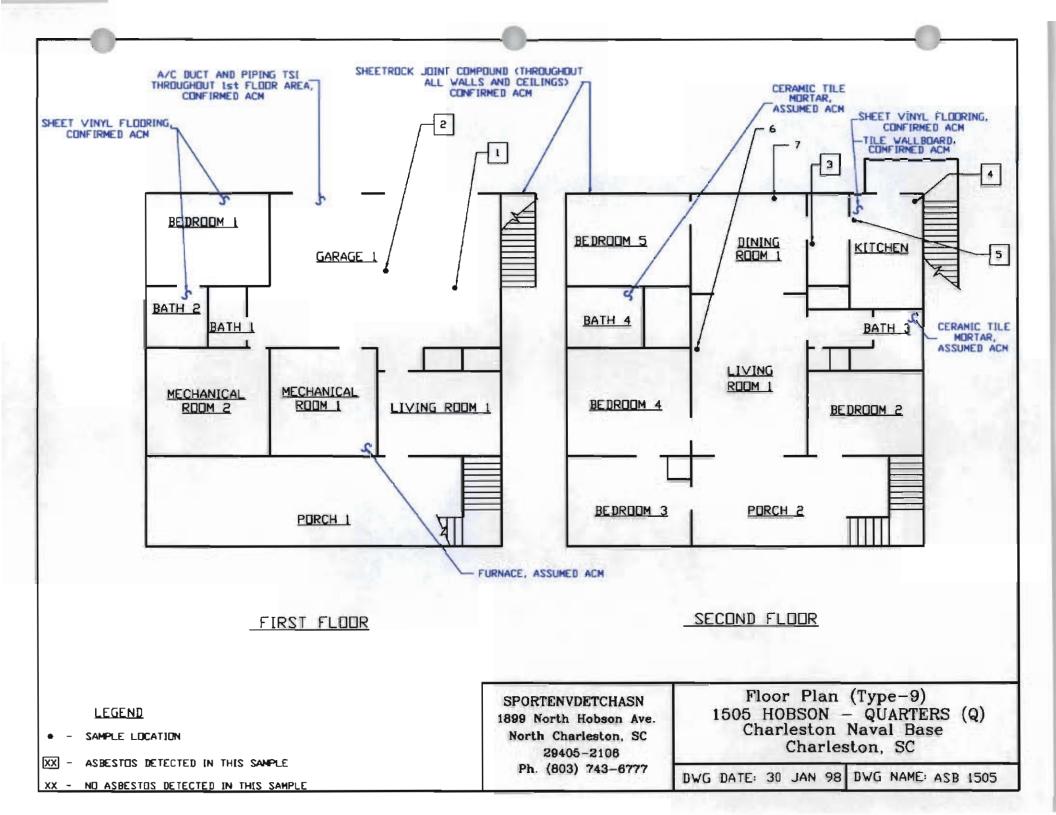
Floor Plan (Type-9) 1485 HOBSON - QUARTERS (R) Charleston Naval Base Charleston, SC

DWG DATE: 30 JAN 98 DWG NAME: ASB 1485

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1485-HOBSON-2	Y	TSI, HVAC	700 Sq. Ft.	1	YES	D	10%	REPAIR,	
1485-HOBSON-3	Y	DUCT	•					0 & M	
1505-HOBSON-1	Y								
1505 -HOBSON-2	Y			ļ					
1505-HOBSON-4	Y	SHEET VINYL	234 Sq. Ft.	6	NO	G	0	O & M	
1505-HOBSON-5	Y	FLOORING, kitchen,	_						
1599-HOBSON-9	Y	SHEET VINYL	275 Sq. Ft.	6	NO	G	0	O & M	
1599-HOBSON-10	Y	FLOORING, bedroom 1, bath #2							
1505-HOBSON-3	Y	MISC, TILE	150 Sq. Ft.	8	NO	G	0	O & M	
1565HOBSON-3	Y	WALLBOARD kitchen							
1485-HOBSON-1	Y	TSI, PIPING I <sup>ST</sup> floor	140 LF	6	NO	G	<1	REPAIR, O & M	Gen. Note 5
152-TURNBULL-2 150-TURNBULL-1	Y* N	MISC. SHEETROCK	8200 sq. ft. (Gen. Note 1)	6	NO	G	0	O&M	* Sample 152- TURNBULL-2
150-TOKNBULL-2	N	JOINT	(Gen. Note 1)	; t					contained sheetrock
150-TKGNBULL-3	N	COMPOUND							joint compound / putty
1565-HOBSON-1	N	COMICOND		į			•		that tested positive for
1565-HOBSON-2	N								asbestos. This sample
1599-HOBSON-1	N						****		was obtained for wall
1377 11020011 1	1 *								covering, the wall
									covering was negative.
NONE	A	TSI, FURNACE	*	*	*	*	*	O&M	Gen, Note 3
NONE	A	MISC, CERAMIC TILE MORTAR, baths 3 & 4	450 Sq. Ft.	8	NO	G	0	O & M	

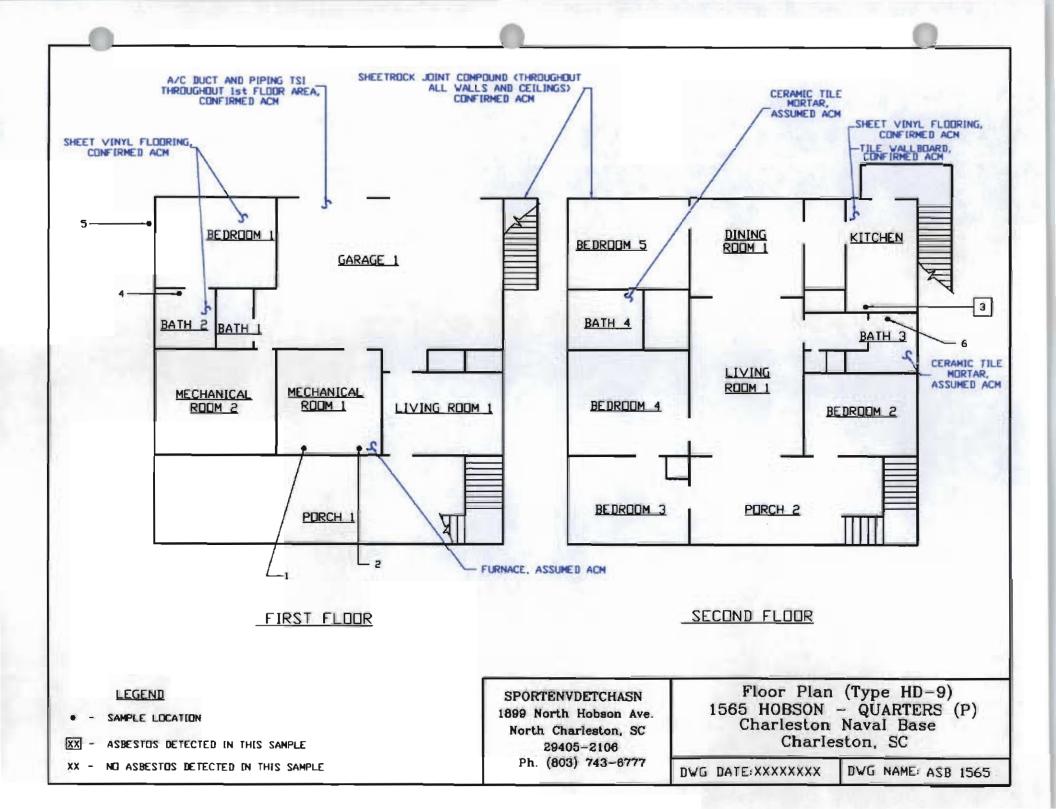
ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet



# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1485-HOBSON-2	Y	TSI, HVAC	700 Sq. Ft.	1	YES	D	10%	REPAIR,	, , , , , , , , , , , , , , , , , , ,
1485-HOBSON-3	Y	DUCT	•					O&M	
1505-HOBSON-1	Y								
1505 -HOBSON-2	Y						]		
1599 -HOBSON-2	Y	MISC., SHEET	509 Sq. Ft.	6	NO	G	0	O&M	
1599-HOBSON-3	Y	VINYL							
		FLOORING,							
		kitchen, bedroom							
		1, bath #2							
1505-HOBSON-3	Y	MISC, TILE	150 Sq. Ft.	8	NO	G	0		
1565HOBSON-3	Y	WALLBOARD	-						
		kitchen					<u></u>		
1485-HOBSON-1	Y	TSI, PIPING I <sup>ST</sup>	140 LF	6	NO	G	0	O & M	Gen. Note 5
		floor							***************************************
152-TURNBULL-2	Y*	MISC.	8200 Sq. Ft	6	YES, only	G	< 1	O&M	Approx. 4 Sq. Ft
150-TURNBULL-1	N	SHEETROCK	(Gen. Note 1)		where				damaged in mech.
150-TRUNBULL-2	N	JOINT			damaged				room
150-TURNBULL-3	N	COMPOUND,							
1565-HOBSON-1	N	walls and				-			
1565-HOBSON-2	N	ceilings							
1599-HOBSON-1	N	throughout house							
NONE	A	TSI, FURNACE	*	*	*	*	*	O&M	Gen. Note 3
NONE	Α	MISC,	450 Sq. Ft.	8	NO	G	0	O&M	
	-	CERAMIC TILE	-						
		MORTAR,							
	-	baths 3 & 4							

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet

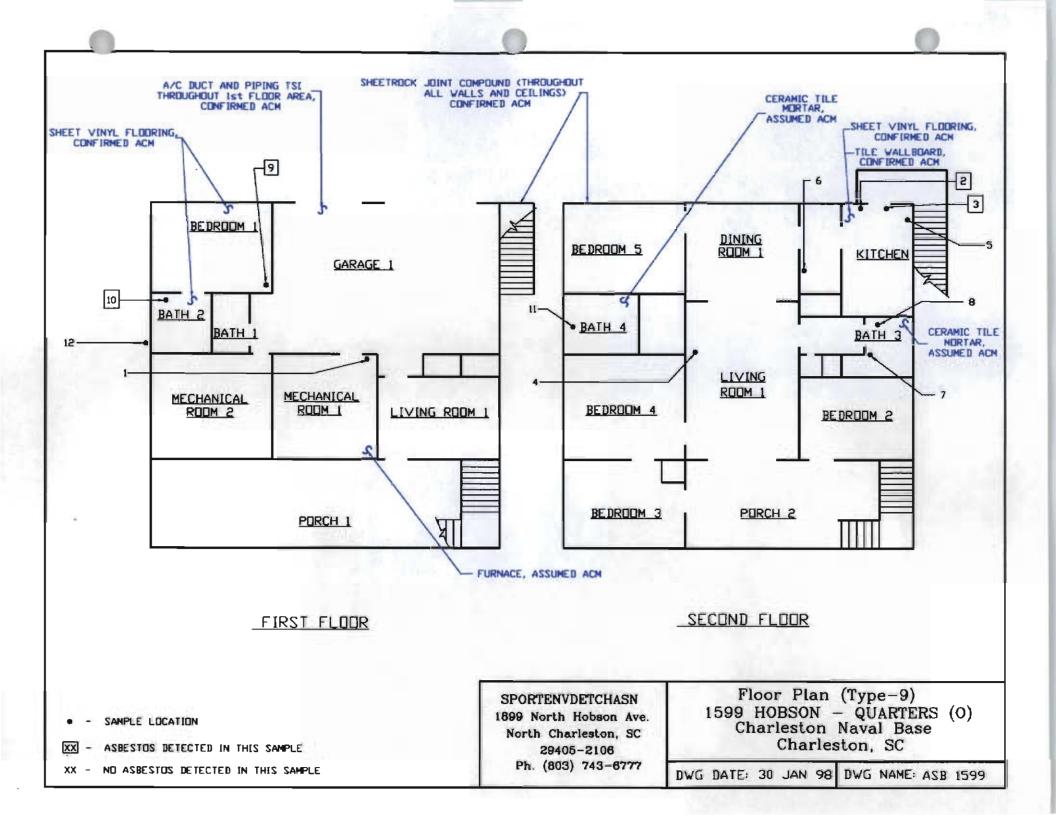


### ASBESTOS SURVEY BUILDING SUMMARY TABLE

# CHARLESTON NAVAL COMPLEX HOUSING

1599 HOBSON QUARTERS "O"

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1485-HOBSON-2	Y	TSI, HVAC	700 Sq. Ft.	1	YES	D	10%	REPAIR,	***************************************
1485-HOBSON-3	Y	DUCT	-		****			O&M	
1505-HOBSON-I	Y				*****				
1505 -HOBSON-2	Y				de annual de		.l		
1599 -HOBSON-2	Y	SHEET VINYL	234 Sq. Ft.	6	NO	G	0	O&M	
1599-HOBSON-3	Y	FLOORING,	-		Balanca de la composition della composition dell				
		kitchen,			-				
1599-HOBSON-9	Y	SHEET VINYL	275 Sq. Ft.	6	NO	G	0	O&M	
1599-HOBSON-10	Y	FLOORING,	_						
		bedroom I, bath							
		#2							
1505-HOBSON-3	Y	MISC, TILE	150 Sq. Ft.	8	NO	G	0	O&M	
1565HOBSON-3	Y	WALLBOARD	-						
		kitchen							
1485-HOBSON-1	Y	TSI, PIPING 1 <sup>ST</sup>	140 LF	6	NO	G	<1	REPAIR,	Gen. Note 5
		floor						O&M	
152-TURNBULL-2	Y	MISC.	8200 Sq. Ft.	6	YES, only	G	<1	O&M	Approx. 1 Sq. Ft
150-TURNBULL-1	N	SHEETROCK	(Gen. Note 1)		where				damaged in mech.
150-TRUNBULL-2	N	JOINT			damaged				room
150-TURNBULL-3	N	COMPOUND,							
1565-HOBSON-1	N	walls and							
1565-HOBSON-2	N	ceilings					***************************************		
1599-HOBSON-1	N	throughout house							
NONE	A	TSI, FURNACE	*	*	*	*	*	O&M	Gen. Note 3
NONE	А	MISC,	450 Sq. Ft.	8	NO	G	0	O&M	
		CERAMIC TILE	•						
		MORTAR, all							
		bathrooms							



1899 North Hobson Avenue

From (Project) I SAMPLES TAK	Envir. Eng. & Ren EN BY LICENSE	nediation Detachment DINSPECTOR(S)	Building /50	TUENBULC	Date: 4/24/97
INSPECTOR _	POUCE COTA	PAL DHEC LICE	ENSE NO _ 2/630	C EXPIRATION I	DATE 8/21/9 >
INSPECTOR		DHEC LICE	ENSE NO	EXPIRATION 1	DATE
NOTIFY OF RE	SULTS NAME _	BRUCK MURRA T ROVOC Charona	PHONE NO 743-64	EXPIRATION 1 82 Ext. <del>230 -</del> 2 34	
Relinquished to	Jimy J	Link Date 4	-24-97		
Relinquished by	John Lei	Date 4	124/97		
Logged in by	<i></i>	Date	·		
	IDENTIFICATION IS	DETERMINED BY POLARI	ZED LIGHT MICROSCOP	Y IND DISPERSION STAIN	ING)
Sampie No	OSH No.	Location/Desc	cnption	Asbestos Typ (or None)	Anaiyst Initials
150 TUENBULL	ME	LOCK, CHANICAL ROOM	u#/	NONE	- WAC
150 TURNAVU -2	М	FROCIC, ECHANICAL ROO	m #/	NONE	- Wor
150 TURNRULL -3	I	REDROOM # 2	<u>&gt;</u>	NONG	= wr
Anaiyst(s)	Paux	Date 5-/-97			
Analyst(s)	<del>//  </del>	Date			
Paguite Logged		Date			

### Environmental Detachment Charleston 1899 North Hobson Ave., North Charleston, South Carolina 29405-2106

## ASBESTOS SAMPLES CHAIN OF CUSTODY RECORD

	100	RN BULL	<del>′</del>		
INSPECTOR: _	James Lewis		DHEC LICENSE NO.: 21686	XPIRATION DATE:	8/20/98
INSPECTOR:			DHEC LICENSE NO.:	EXPIRATION DATE:	
Notify of Result	s: NAME: Jame	es Lewis	PHONE NO. 743-28		
_			ED LIGHT MICROSCOPY and DISPERS		
Sample I. D. #		TIME	DESCRIPTION	ASBESTOS TYPE (or None)	Analy Initia
150 TURNBUL B: L1 150 TURNBUL B: 5	4 1/28/98	i	NINDOW GLAZING DOWNSTAIRS BATH	NONE	المدي
150 TURNBUL	L 1/2		WALL PLASTER FORM	NONE	<i>y. p. a</i>
<b>\$</b> 5	128/48		MASTER BATH_	NONE	1.8.
				6	
				_	
				· <del>-</del>	
_					
<del>-</del> -				<del></del>	
			<del>-</del>		
	1				•

1899 North Hobson Avenue

From (Project) Envir. En	ng. & Remediation Detachment Building 152 T	URNBULL Date	4/24/97
	_		=/ 6
INSPECTOR 1204C	E CHARDIA DHECLICENSE NO 2/680	_ EXPIRATION DATE	8/2 / PGV
INSPECTOR	DHEC LICENSE NO	EXPIRATION DATE	
NOTIFY OF RESULTS 1	NAME Rovce Chardia PHONE NO 743-6482 Ext	230	
Relinquished to Jamery	1 1 Am to Date 4-24-97		
Relinquished by fares	Bur Date 4/24/817		
Logged in by	Date		
/(DENTIFIC	CATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AND	DISPERSION STAINING)	
Sample OSH No No	Location/Description	Asbestos Type (or None)	Analyst Initials
152 TURNOU	WALL COURRING, ROUGH FINISH	NONE	WC
152 TURNAVEL	WALL COULRING, ROULIT FINISIT  PORCH 2  LIVING ROOM (TOP OF STAIRS) PUTTY  WALL COURSING / JOINT COMPCINE	CHRYSOTILE	(M
TURNBUL -	LIVING ROOM #/	NONE	usc
-3			- 1
Analyst(s)	Buy Date 5-1-97		
Results Logged	Date		

# Environmental Detachment Charleston 1899 North Hobson Ave., North Charleston, South Carolina 29405-2106

## ASBESTOS SAMPLES CHAIN OF CUSTODY RECORD

BUILDING NO.	152	TURNBU	<u> </u>				
INSPECTOR: Jan	mes Lewis		DHEC I	LICENSE NO.: 21	686 EXP	RATION DATE:	8/20/98
INSPECTOR:			DHEC I	LICENSE NO.:	ЕХ	(PIRATION DATE:	
Notify of Results: Notify of Results: N	NAME: Jam	es Lewis	ED A ICHTE MI	PHONE N	IO. 743-2821	ext 139	
					DISPERSION		
Sample I. D. #	DATE	TIME		DESCRIPTION		ASBESTOS TYPE (or None)	Analyst Initials
152 TURNUL	-		BASE BOA	RD MASTIC		2 1% CHRYSOTILE	اررما
4		178	MAID 5	BATH		CHRUSOTILE	1.1.A.
						0	
			-115				
							<del> </del>
					_		
					$\overline{}$		
RELINQUISHED	BY: Son	nes Lo	رگسرور	DATE: //28/	198	)	
RELINQUISHED RECEIVED BY:	01	f. 18		DATE: /- 2			
-		TA	zl.				
ANALYST(S):	eemong	O. Llar	<b>V</b>	DATE: <u>/ - 2</u>	0 70		
//							

1899 North Hobson Avenue

From (Project) Envir. Eng. & Remediation I SAMPLES TAKEN BY LICENSED INSPEC	TOR(S)			
INSPECTOR ROYCE CHARAIA	DHEC LICENSE	ENO 21680	EXPIRATION	DATE 8/2/A7
NOTIFY OF RESULTS NAME Rovee Char	MURRAY PHO	ONE NO 743-648	32 Ext <del>230-</del> ≥ 3 4	
Relinquisned to Juning 1. Anth	Date	24-97		
Relinquished by James Line	Date 4/2	7/47		
Logged in by				
IDENTIFICATION IS DETERMIN	ED BY POL \RIZED I	IGHT MICROSCOP	Y AND DISPERSION STAIN	(ING)
Sample OSH No No	Location/Descripti	on	Asbestos Typ (or None)	
161 EVERGEARY BATHROOM -1 CAULK	#3, (c1)		NONE	W
		- · · · · ·		
	$\overline{}$			<del>-   </del>
Analyst(s) AurDate 5	-1-97			
Analyst(s) Date				
Results Logged Date				

# ENVIRONMENTAL ENGINEERING AND REM DETACHMENT CHARLESTON $^{r_{1}}$

1899 North Hobson Avenue

ON

		IG. & Remediation LICENSED INSPEC	CTOR(S).	vergiades Date: o	120191
INSPECTOR	James Lewi	s	DHEC LICENSE NO. 21686	EXPIRATION DATE 8	/20/97
INSPECTOR	_		DHEC LICENSE NO.	EXPIRATION DATE	
NOTIFY OF I	RESULTS:	NAME James Lewi	sPHONE NO. 743-2821	ext 139	
Relinquished t	0 1. 1	South	Date 6-23-97		
Relinquished &	y Jan	es Luna	Date 6/23/97		
Logged in by			Date NED BY POLARIZED LIGHT MICROSCOPY	AND DISPERSION STAINING)	
Sample No.	OSH No.		Location/Description	Asbestos Type (or None)	Analyst ! Initials
161 E.G. -2		Bedroom 4, Resignation finish)		NONE	ld.f.
161 E.G			ea Wall covering (rough finish)	NONE	11.S.
	_				
				_	
Analyst(s) Analyst(s)		Date Date	5-23-97		
Results Logg	ed <del></del>	——— Date—			

1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

From (Project) Envir. Eng. & R SAMPLES TAKEN BY LICENS	Remediation Detachment Building 1475	HORSON Date 4/9/97
INSPECTOR A. CHAR	DHEC LICENSE NO	EXPIRATION DATE 24/1/77
INSPECTOR	DHEC LICENSE NO	EXPIRATION DATE
	Rovce Charpia PHONE NO 743-64	
. //	<del></del>	
Relinguished by	Date $\frac{4/9/97}{2}$	•
Logged in by	Date	
	S IS DETERMINED BY POLARIZED LIGHT MICROSCOE	PY AND DISPERSION STAINING)
Sample OSH No No	Location/Description	Asbestos Type Analyst (or None) Initials
<u> </u>	PE TSI CAPPORT	CHEYSSTILE Add.
	•	
Analysi(s) Ling I Anal		
Analysi(s)	Date	
Results Logged	Date	

1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

		ig. & Remediation	ECTOR(S)	Building	1485	17 C B SCN Date	-4/11/90
INSPECTOR	R.	HARPIH	DHEC LICE	ENSE NO _	21(30	_ EXPIRATION DATE	1211 7
INSPECTOR				ENSE NO.		EXPIRATION DATE	
NOTIFY OF R	ESULTS.	NAME Ro <del>vee (</del>	s Mueca-	PHONE NO	743-6482 <u>Ex</u>	230	
Relinquished to	Limm	1 Amile	Date	<del>1-14-</del>	97		
	//	, -	Date	111/21	<u> </u>		
Logged in by_			Date				
	(IDENTIFI	CATION IS DETER	MINED BY POLARI	ZED LIGHT M	ICROSCOPY AND	DISPERSION STAINING)	
Sample No	OSH No		Location/Des	cription		Asbestos Type (or None)	Analyst Initials
1455 HCD'EN		GARAGE	VERT 1	7067 26 (1	)TS I-1)	CHRy sutite	118
1485 HOLDEN		CARACE	VENT DV	CT ZA	N-181-1)	CHRYSCTILE	J.J. J.
1435 HCBXN		12000 0	AMACE F	TELT ACC	PLASTER _ K JEL)	NONE	1 d. d.
14.73 HC132000		CARPET	1 RELD TI	(-E) in 1+	1 cm	NONE	1.1.1.
1455 H1B20 -					(cm)	NONE	211
1455 HC 350~					(cm)	NUNE	11.1
		]					
Analyst(s) Analyst(s) Results Logged		Date Date	<u>4-13-</u> 9	7			

1899 North Hobson Avenue

# North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION

			ASBESTOS.	IDENTIFICATIO	OIN	(Qres C	2	
		ng. & Remediati LICENSED INSP	on Detachment PECTOR(S)	Building 1503	5 Ho.	8502	Date	4/11/97
INSPECTOR	Rene	CHARMA	DHEC LICI	ENSE NO <i>⊋/68</i>	80	EXPIRATI	on dati	3/21/97
INSPECTOR			DHEC LICI	ENSE NO.		EXPIRATI	ON DATI	E
NOTIFY OF F	RESULTS.	NAME Rovee	Charpia	PHONE NO 743-6	6482 Ex	t. 230		
Relinquished to	· Finns	y 1 Sout	Date	4-14-97	_			
Relinquishedd	& Blue	e/ Jun	Date+	14/97				
Logged in by		/	Date	/ 				
	(IDENTIFI	CATION IS DETER	MINED BY POLARI	ZED LIGHT MICROSC	COPY AND	DISPERSION S	TAINING)	
Sample No	OSH No.		Location/Des	cription		Asbesto (or N		Analyst Initials
150. Hobsen -1		GARAGE,	(	(D-T51-1)		CHIZU SO	t,LE	D.J. S.
1505 HORSON-2	~	GARAGE,	, Duct TS	1 (J-751-1)		CHRYSOT CHRYSOT	::LE	111
1505 HUBSI U-3		KITHEN.	LL RIARD	(TWB1)		CH12 , SU)	tile	11.1.
						7		
	-					_		
						<u></u>		
Analyst(s)	ning 1 2	Date Date	<u>4/22/</u> 97 4/23/97				, -	
Results Logge	<u></u>	Date	7-7-17					

1899 North Hobson Avenue

F S	From: (Project SAMPLES TA	) Envir. En KEN BY L	g. & Remediation	Detachment	Building / 5	ros H	BJON	Date: 4/23/9
n	NSPECTOR .	Royc	E CHARPIA	DHEC LICE	ENSE NO. 2/	630	_ EXPIRATION I	DATE 8/21/07
Π	NSPECTOR		2111	DHEC LICE	ENSE NO.		EXPIRATION I	DATE
			NAME Rovce C	त्यागाव	PHONE NO. 74	3-6482 Ex		
R	Relinquished to	· <u>aao</u>	tus Bail	Date 4	124197		7	43-9413
	Reiinquish <b>eci</b> b	y James	Luir	Date <u> /</u>	24/97			
L	ogged in by	1 Hat	hy D. Back	Date 4	24/97			
Г	si- l		CATION IS DETERM	INED BY POLARI	ZED LIGHT VIICKOS	SCOPY AND	DISPERSION STAIN	
	Sa <del>mp</del> ie No.	OSH No.		Location/Desc	cription		Asbestos Typ (or None)	e Analysi Initials
1-219	1505 Habson -4		KITCHEN' VINYL FLOC		143 1146 twors/m 143	יאנה אב)	Unysotile	SA R
20	4081 au	}	1017 072	/	143 LYING FLOORS		Chrysotil	e AMR
)-221	HORSON -6	_	FIRERACE BRIG	ik Mortal			No asbest	ž KMR
						_	-,	
			•		,			
					<u>-</u>		.,	
					·		· · · · · · · · · · · · · · · · · · ·	
A	nalyst(s)	Car	ReoCrDate 4	-28-97	Repults ,	phoned	to Royce 4	<del>1</del> -28-97
A	naiyst(s)	7	Date _		1		. 1	·
Re	esults Logged		Date	_				

#### 1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

		g. & Remediation ICENSED INSPEC	bson Date: 6	/20/97			
INSPECTOR	James Lewi	s	DHEC LICENSE NO. 21686	EXPIRATION DATE 8	EXPIRATION DATE 8/20/97		
INSPECTOR			DHEC LICENSE NO	EXPIRATION DATE			
NOTIFY OF	RESULTS:	NAME James Lewis	PHONE NO. 743-282	1 ext 139			
Relinquished	to f	South	Date 6-23-97				
Relinquished	by <u>- frin</u>	in Levis	Date 6/23/917				
Logged in by	(IDENTIFI	CATION IS DETERMI	Date NED BY POLARIZED LIGHT MICROSCOPY	Y AND DISPERSION STAINING)			
Sample OSH Location/Description				Asbestos Type (or None)	Analyst Initials		
1505 Hobson-7		Dining room wall	covering (rough finish)	NONE	J.J. S.		
	ş						
			<del></del>				
II .							

Analy#(s)

Results Logged

Date

Date

### 1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

		g. & Remediation I ICENSED INSPEC	Detachment E	Building	5 Had	scw were P Dat	e -/11/47
INSPECTOR	Rouch	(WARDIA	DHEC LICENS	ENO 216	Y C	EXPIRATION DAT	TE 5/2/07
INSPECTOR			DHEC LICENS	E NO		EXPIRATION DAT	TE
NOTIFY OF I	RESULTS	NAME Rovee Cha	AVERTY PH	ONE NO 743	3-6482 Ex	t 230	
Relinquished t	o firming	1 Amith	Date 4-	14-97			
Relinquished	N Kan	1 Amoth	Date 7/4	177			
Logged in by	-	V	Date				
	(IDENTIFI	CATION IS DETERMIN	ED BY POLARIZED	LIGHT MICROS	SCOPY AND	DISPERSION STAINING	)
Sample No	OSH No		Location/Descrip	tion		Asbestos Type (or None)	Analyst   lnitials
1585 MUSSON 1	<del></del> -	MICH ROC	m SHEET	eck l	(sei)	NONE	114
HORSO U-2		MECH KOLA			(sei)	NONE NONE CHRYSUTILE	111
1SET HORSON?		KITCHEN	TILE SUA	consider.	Tusi)	CHRY SUT, LE	11.1
		<del> </del>				7	
				<del></del>			
-			<del></del>		_		
			<u> </u>				
							ļ
	mmy 1	Anth Date 4	<u>/7-</u> 97				
Analyst(s)	,	Date					
Results Logge	ed .	Date					

### Environmental Detachment Charleston 1899 North Hobson Ave., North Charleston, South Carolina 29405-2106

## ASBESTOS SAMPLES CHAIN OF CUSTODY RECORD

BUILDING NO.	1565	170B50	h		
INSPECTOR: Jan	mes Lewis		DHEC LICENSE NO.: 21686EX	PIRATION DATE:	8/20/98
INSPECTOR:	. <u> </u>		DHEC LICENSE NO.:	EXPIRATION DATE:	
Notify of Results: N			PHONE NO. 743-2821 ED LIGHT MICROSCOPY and DISPERSIO		<u> </u>
				<del></del>	
Sample I. D. #	DATE	TIME	DESCRIPTION	ASBESTOS TYPE (or None)	Analyst Initials
1565 HOBSON	1/2/1		BASE BOARD MASTIC		
4	98	<u> </u>	DOWN STAIR BATH WINDOW GLAZING DOWN STAIR	NONE	J. J.A.
1565 110850m	1/281				
5	198		BEDROOM BY A/C	NONE	1.1.4
1565 HOBSON	11		PLASTER FROM MASTER		1
1565 HOBSON 4 1565 HOBSON 5 1565 HOBSON	124/98		BED ROOM BATH	NONE NONE NONE	01.8.
		4		-	
					İ
· · · · · · · · · · · · · · · · · · ·		<u>.</u>		<u> </u>	
	-				<del>                                     </del>
RELINQUISHED	BY:	P	wir DATE: 1/28/97		· · · · · · · · · · · · · · · · · · ·
	- Grin	res do	120/10		
RECEIVED BY:	9. 7 <u>.</u>	tmill -	10	7	
ANALYST(S):	horny J.	Soul	DATE: 1-28-98		

1899 North Hobson Avenue

SAMPLES TAKEN BY LICE	NSED INSPECTOR(S)	97 HASEN ONE O Date 4/0/79
INSPECTOR Local Co	HARPIA DHEC LICENSE NO	EXPIRATION DATE 3/21/17
NOTIFY OF RESULTS NAM	DHEC LICENSE NO  FRUE MURRAY PHONE NO 743	-6482 Ext. 230
Relinquished to James	1 Amth Date 4.14-97	
Relinquished by Jun /	1 Amilto Date 4.14-97 They Date -/1-17	
Logged in by	Date	
(IDENTIFICATION)	ON IS DETERMINED BY POLARIZED LIGHT MICROS	COPY_AND DISPERSION STAINING)
Sample OSH No No	Location/Description	Asbestos Type Analyst (or None) Initials
1519 HORKEN-1	(SRI)	NONE J.J.
	, , , , , , , , , , , , , , , , , , , ,	
	, , , , , , , , , , , , , , , , , , ,	
Analyst(s) James J. Jan	Date 4/17/97	
Analyst(s)	Date	
esuits Logged	Date	

1899 North Hobson Avenue

	r. Eng. & Remediation Detachment BY LICENSED INSPECTOR(S)	Building 1599 Hosson (ares 0) De	ate: 4/23/97
	_	ISE NO 2/680 EXPIRATION DA	4/21/97
INSPECTOR			
	Bench Muzant	HONE NO 743-6482 Ext. 230 FAY	1E
NOTIFY OF RESUL	TS: NAME Reves Charping P		743-941
Relinquished to		24/97	
Relinquished by	mesterner Date 4/	17/97	
	thy D. Bailey Date 4/2		
	4 6	DILIGIT MICROSCOPY AND DISPERSION STAINING	
Sample OSI	Location/Descri	Asbestos Type	Analyst
No. No.	DALLING BUSIN	(or Nune)	lmuais
22 1599 HOLSIN-2	VINAL FLOOR " PUMBELYN	C FLUGA & MASTIC ASBROTOS	18 XX
23 /579 HOSION-3	KITCHEN VINGE W/WHACKI	(VFI) CHRYSOTILA	
24 HOBSON-4	LIVING ROOM FIRE PIACL BRICK (FE	NO ASBESTOS DETE	CTED 434
25 Hukson -5	WALLIAMER (WPI)	NO ASBESTOS DETE	CLEDICTE
1579	KNIHEN NOOK - STRZ WALL PAPER (WPI)	NO ASBESTOS DETEC	TED NULLO
1599 HOBER-7	WALL PAPER (WP 2)	NO ASBESTOS DETE	CTEDARA
1599 HIBEIN -	BATH NO 3 WALLPAPER (WP-2)	NO ASBESTOS DETE	HAN
1599 16450Ng	BEBROOM # / (BOWNSTAKES VINUL FLOOR (VFZ)	CHRYSOTILE ACBRSTOS	HELD
HECTOR ALVAMINDUSTRIAL P			
Analyst(s) W.L.	hun Date 4/17/97	Post-It* brand fax transmittai memo 767	
Analyst(s)	Date	CO. MURAY CO.	L. ALVARE
Results Logged	Date	Dept. Phono #	
		Fex # 743-94/3 Fex#	

### ENVIRONMENTAL ENGINEERING AND REMEDIATION

### **DETACHMENT CHARLESTON**

1899 North Hobson Avenue

s	samples ta Nspector	KEN BY L	ICENSED INSPEC Criardia	Difec License no - 270	Date:	8/21/8
17	いてりむりつけ			DURC LICENSE NO	EXPIRATION DATE	<del></del> -
N.	OTIEV OF	ERIU TO	NAME ROVE CH	PHONE NO. 741		
!!	V	الدالة.	D'a	PHONE NO. 74	3-0462 CXI. 23U	
				Date 4/24/97	<del></del>	
R	clinquished b	y Jane	sour	Date 4/24/67		
L	ogged in by _	Kath	D. Barley	Date 4/24/97		
ſ		(IDENTIFIC	ATION IS DETERMIN	NED BY POLARIZED LIGHT MICROS	COPY AND DISPERSION STAINING	
	Sample No	OSH No.		Location/Description	Asbestos Type (or None)	Analys Initials
11	579,		BATTHEWM #		CHANGOTICK	
30 /	HORIZOH		VINYL FO	uar (VF2)	AS BRSTV S	L
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	HECTOR	ALVARE	2.			
		RIAL HY		/. /		
Ana	ajvac(a) Mr	Z. Nel	unce Date #/6	15/97		
			<b>(</b> )	,		

### Environmental Detachment Charleston 1899 North Hobson Ave., North Charleston, South Carolina 29405-2106

# ASBESTOS SAMPLES CHAIN OF CUSTODY RECORD

BUILDING NO.	<u> 1599 н</u>	0B50N	,				
INSPECTOR: Jan	mes Lewis		DHEC LIC	ENSE NO.: 21686	EXPII	RATION DATE:	8/20/98
INSPECTOR:			DHEC LIC	ENSE NO.:	EX	PIRATION DATE:	
Notify of Results: I	NAME: Jame	s Lewis	ED LIGHT MICRO	PHONE NO. 1			
					FERSION		
Sample I. D. #	DATE	TIME		SCRIPTION		ASBESTOS TYPE (or None)	Analyst Initials
1599 HARSON	11		PLASTER FI	ROM UPSTAIR	١		
11	128/98		BATH ARAM	BETWEEN ROOM LAZING 80		NONE	0.1.8.
1506			144.000042	LAZINE BO	wn		7
1599 HOBSON 11 1599 HOBSON 12	1/28/94		STAIRS BED	Room		NONE NONE	118
		-		- W W W W W W W W			
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			<u></u>	<u></u>		<u> </u>	
RELINQUISHED	BY: Sam	es Lo	De De	ate: <u> /28/</u> 9	8		
RECEIVED BY:	J. 1.	South	D	ATE: /-28	-98		
ANALYST(S):	Jenny .	1. An	<b></b> D	ате: <u>/-28</u> -	98		

### ASBESTOS SURVEY TYPE HD-23 HOUSING CHARLESTON NAVAL COMPLEX CHARLESTON, S.C.

#### 1. DESCRIPTION:

There are twenty housing units built to the HD-23 floor plan style. Eighteen of these are duplexes and two are single family units. *One unit, 1356 AVENUE H, was occupied and was NOT INSPECTED*. Each unit is 2381 square feet, including garage and porch areas. Exterior siding is transite (assumed asbestos) which in some cases had minor damage such as nicks and chips. Roofing material is asphalt shingle. Houses are in good condition but there are signs of neglect such as flaking paint and other observations as noted in the Building Summary Tables. All units are similar in construction and have materials that are homogeneous to all HD-23 units. See individual Building Summary Tables for information on each unit. Also, loose pieces of transite siding were noted in the crawl spaces of several units.

#### **HD-23 HOUSING UNITS:**

<u>ADDRESS</u> :	BUILDING / QUARTERS NO.:
761 COMMISSARY ST.	М 6
775 COMMISSARY ST.	M 7
801 COMMISSARY ST.	M 8
804 MARINE AVE.	M 5
809 COMMISSARY ST.	M 9
1285 AVE G	EE
1288 AVE H	FF
1293 AVE G	D D
1294 AVE H	GG
1304 AVE H	нн
1305 AVE G	CC
1310 AVE H	11
1311 AVE G	ВВ
1345 AVE G	A A
1350 AVE H	11
1351 AVE G	LL
1445 HOBSON AVE.	X
1455 HOBSON AVE.	W
1575 HOBSON AVE.	D

# ASBESTOS SURVEY TYPE HD-23 HOUSING CHARLESTON NAVAL COMPLEX CHARLESTON, S.C.

#### 2. FINDINGS:

Twenty homogeneous sampling areas were identified as possible Asbestos Containing Material (ACM). Of the twenty homogeneous sampling areas, **eight were confirmed to contain asbestos** (including 5 different styles of sheet vinyl flooring), **three were assumed to contain asbestos**, and nine were considered to be asbestos free.

#### CONFIRMED ACM

- SHEET VINYL FLOORING, five different styles of sheet vinyl flooring were noted, see building summary tables for locations in individual units
- 2. DUCT JOINT TAPE (on hvac duct joints), in crawl space
- 3. FURNACE GASKET MATERIAL, in mechanical room, (see General Note 3)
- SHEETROCK JOINT COMPOUND, walls and ceilings throughout house, (see General Note 1) NOTE: in areas of flaking paint, there could be exposed joint compound

#### ASSUMED ACM

- 1. DUCT JOINT TAPE, mechanical room, (labeled "contains asbestos") the exterior is coated with gray mastic. The mastic is non-asbestos.
- 2. CERAMIC TILE MORTAR, all bathrooms
- 3. TRANSITE SIDING, house exterior, porches

#### ASBESTOS FREE

- 1. CAULKING, bathrooms and kitchens
- 2. FIREPROOF SHEATHING, black sheathing in garages
- 3. WALLPAPER, various rooms
- ROLLED ON WALL COVERING, textured, rough finish wall coating, various rooms
- 5. WALL BOARD, below chair rail, various rooms
- 6. STAIR TREAD ADHESIVE
- 7. CARPET MASTIC
- 8. ATTIC INSULATION
- 9. EXTERIOR WINDOW GLAZING

#### NOTE:

• Carpet Mastic (CM) and Stair Tread Adhesive (STA1) not present in all houses.

### ASBESTOS SURVEY CHARLESTON NAVAL COMPLEX HOUSING CHARLESTON, S.C.

#### GENERAL NOTES

- Many sheetrock walls and ceilings have joint compound applied to seams and nail holes.
   In some cases this joint compound tested positive for asbestos. The walls and ceilings that have asbestos containing joint compound applied must be considered as ACM in their entirety, even though the sheetrock itself may be non-asbestos.

   NOTE: Flaking paint on these surfaces could expose asbestos.
- 2. Cloth-like wiring insulation in all houses is a suspected asbestos containing material. Sampling of this insulation should be performed prior to any disturbance.
- 3. Many houses contain oil-burning furnaces and boilers, which may contain suspected ACM such as gaskets, seals, and asbestos board, etc. The condition and quantity of these materials could not be determined without disassembly. Sampling of these materials should be performed prior to any disturbance.
- 4. Convenience samples were taken of various roofing materials. All samples were negative. However sufficient samples could not be obtained of all roofing material to rule out roofing material as non-asbestos.
- 5. The assessments of piping TSI and HVAC duct TSI are for readily accessible portions of the piping and ductwork only. It should be noted that much of these systems could exist in wall interiors and between floors and ceilings of adjoining floors. This report does not assess the amount and condition of TSI in these inaccessible areas but they should be considered prior to any renovation or demolition.
- Most of the sheet vinyl flooring found in these houses consists of multiple layers of flooring. Most of the flooring had at least one layer that was ACM. Also some sheet vinyl flooring was placed over floor tiles. In most cases these floor tiles are either assumed or confirmed ACM.
- 7. Items listed in the Building Summaries, as "CONFIRMED ACM" were proven to contain greater than one percent asbestos through bulk sampling and laboratory analysis.
- 8. Items listed in the Building Summaries as "ASSUMED ACM" are assumed to be greater than one percent asbestos. Assumptions are based on past experience with similar materials.
- 9. Items listed in the Building Summaries as "ASBESTOS FREE" are suspected asbestos containing materials that were found not to contain greater than one percent asbestos through bulk sampling and laboratory analysis.
- 10. Building Summary Tables only list CONFIRMED ACM and ASSUMED ACM.

### ASBESTOS SURVEY CHARLESTON NAVAL COMPLEX HOUSING CHARLESTON, S.C.

#### GENERAL NOTES

- 11. Definitions Of AHERA CATEGORIES (1 through 8) as used in building summary tables:
  - 1. Damaged or Significantly Damaged friable thermal system insulation.
  - 2. Damaged friable surfacing ACM.
  - Significantly Damaged friable surfacing ACM.
  - 4. Damaged or Significantly Damaged friable miscellaneous ACM.
  - 5. ACM with potential for significant damage.
  - 6. ACM with potential for damage.
  - 7. Any remaining friable ACM or friable suspected ACM.
  - 8. Non-friable ACM.
- 12. Explanation of "CONDITION" as used in BUILDING SUMMARY TABLES:

#### SURFACING and MISCELLANEOUS MATERIAL

- <u>SIGNIFICANTLY DAMAGED</u> (material with one or more of the following characteristics)
  - (a) The surface is crumbling or blistered over at least one tenth of the surface if the damage is evenly distributed (one quarter if the damage is localized).
  - (b) One tenth (one quarter, if localized) of material hanging from the surface, deteriorated, or showing adhesive failure.
  - (c) Water stains, gouges, or mars over at least one tenth of the surface if the damage is evenly distributed (one quarter if the damage is localized).
- <u>DAMAGED</u> (material with the following characteristics)
  - (a) The surface is crumbling, blistered, water-stained, gouged, marred or otherwise abraded over less than one tenth of the surface if the damage is evenly distributed (one quarter if the damage is localized).

#### GOOD CONDITION

(a) Material with no visible damage or deterioration, or showing only very limited damage or deterioration.

### ASBESTOS SURVEY CHARLESTON NAVAL COMPLEX HOUSING CHARLESTON, S.C.

#### **GENERAL NOTES**

#### THERMAL SYSTEM INSULATION

- <u>SIGNIFICANTLY DAMAGED</u> (material with one or more of the following characteristics)
  - (a) Missing jackets on at least one tenth of the piping or equipment.
  - (b) Crushed or heavily gouged or punctured insulation on at least one tenth of pipe, duct, etc., if the damage is evenly distributed (one quarter if the damage is localized).
- DAMAGED (material with one or more of the following characteristics)
  - (a) A few water stains on less than one tenth of insulation with missing jackets.
  - (b) Crushed insulation or water stains, gouges, punctures, or mars on up to one tenth of the insulation if the damage is evenly distributed (or up to one quarter if the damage is localized).

#### GOOD CONDITION

(a) Material with no visible damage or deterioration, or showing only very limited damage or deterioration.

# CHARLESTON NAVAL COMPLEX HOUSING

761 COMMISSARY ST. QUARTERS M-6 PLAN HD-23

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Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-1	Y	DUCT JOINT	35 DUCT	4	YES	SD	50	REMOVE	
1445-HOBSON-4	Y	TAPE, hvac duct	JOINTS,					OR	
1445-HOBSON-5	Y	joints in crawl	various sizes -		1			REPAIR	
1445-HOBSON-6	Y	space	6in. to 24in.						
ASSUMED	Α	DUCT JOINT TAPE, hvac duct	30 DUCT JOINTS, various	8	NO	G	0	O & M	previously repaired / encapsulated
		joints in mech	sizes, 4" to 8"						
761-COMM-3	N	SHEETROCK	APPROX.		YES, ONLY	G	< !	REPAIR	damage in mech
761-COMM-7	N	JOINT	5946 Sq. Ft.	6	WHERE				rm5 sq. ft.
761-COMM-8	N	COMPOUND,			DAMAGED				damage upstairs
775-COMM-4	N	walls and			;		[		bedroom- 3sq. ft.
775-COMM-8	Y	ceilings			1				flaking and or
775-COMM-9	N	throughout house							peeling paint /
801-COMM-4	N								wall covering
1304-H-3	Y								www.covering
1304-H-4	Y								See General Note 1
1345-G-3	N				]		]		See General Hote 1
1351-G-2	N								
1445-HOBSON-2	N								
1445-HOBSON-3	N								
1455-HOBSON-6	N	·							
1455-HOBSON-9	N								
1455-HOBSON-10	N								
761-COMM-1	N	SHEET VINYL	250 Sq. Ft.	6	YES	G	</td <td>REPAIR</td> <td>damage in bedroom 1</td>	REPAIR	damage in bedroom 1
801-COMM-3	N	FLOORING,	1						The state of the s
804-MARINE-3	N	kitchen, bedroom			only where			O & M	
1293-G-1	Y	1, hall, closets,			damaged			<b>V</b>	
1345-G-4	N	laundry							
1345-G-5	N								
1445-HOBSON-9	N								
1445-HOBSON-10	N								
761-COMM-2	Y	SHEET VINYL	12 Sq. Ft.	8	NO	G	0	O&M	better and the second second second second
804-MARINE-4	Y	FLOORING,				Ū		V 22 ///	
1305-G-1	Y	porch 2 closet							

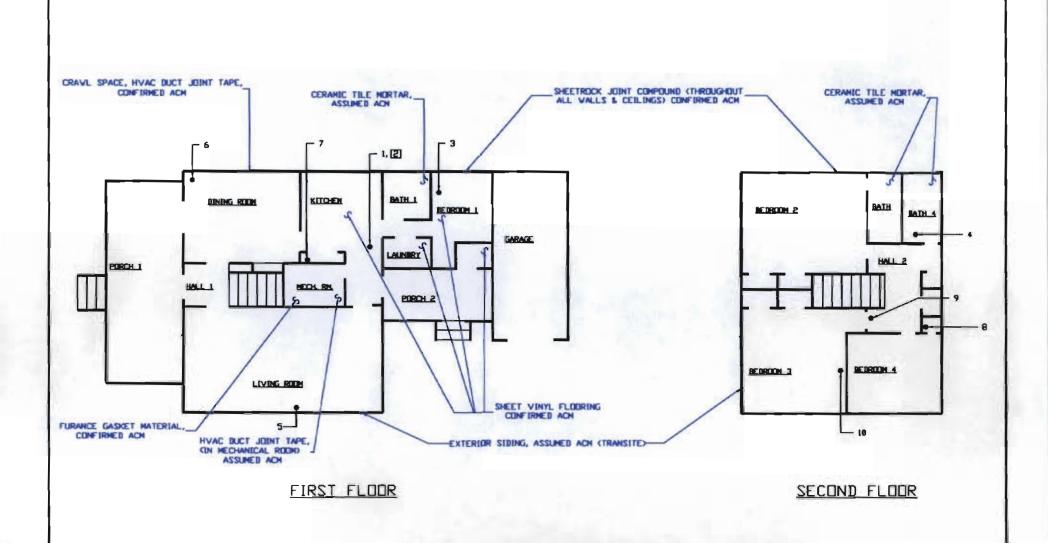
ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet

### ASBESTOS SURVEY BUILDING SUMMARY TABLE

# CHARLESTON NAVAL COMPLEX HOUSING

761 COMMISSARY ST. QUARTERS M-6 PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1305-G-2	Y	FURNACE, gasket material	*	*	*	*	*	O&M	See General Note 3
NONE	A	CERAMIC TILE MORTAR, all bathrooms	375 Sq. Ft.	8	NO	G	0	O&M	
ASSUMED	A	EXTERIOR SIDING, (TRANSITE)	*	*	*	*	*	*	* assessment not required on exterior material
ASSUMED	A	EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft.	8	NO	G	0	O&M	



#### LEGEND

. - SAMPLE LOCATION

XX - TESTEB POSITIVE FOR ASBESTOS

XX - NO ASSESTOS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor PLan (Type HD-23)
761 COMMISSARY ST. QUARTERS (M6)
Charleston Naval Base
Charleston, SC

DWG DATE: 28 JAN 98 DWG NAME: ASB 761

# CHARLESTON NAVAL COMPLEX HOUSING

775 COMMISSARY ST. QUARTERS M-7 PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-1 1445-HOBSON-4 1445-HOBSON-5 1445-HOBSON-6	Y Y Y Y	MISC., DUCT JOINT TAPE, crawl space, hvac duct	35 DUCT JOINTS, VARIOUS SIZES - 6in. to 24in.	4	YĖS	SD	50	REMOVE OR REPAIR	
761-COMM-3 761-COMM-7 761-COMM-8 775-COMM-4 775-COMM-9 775-COMM-10 775-COMM-11 801-COMM-4 1304-H-3 1304-H-4 1345-G-3 1351-G-2 1445-HOBSON-2 1445-HOBSON-3 1455-HOBSON-9 1455-HOBSON-9	N N N Y N Y N Y N N N N N N N N N N N N	MISC. SHEETROCK W/JOINT COMPOUND AND TAPE	APPROX. 5946 Sq. Ft.	6	YES, ONLY WHERE DAMAGED	G	< 1	REPAIR, O & M	<ul> <li>damage in mech rm 1 sq. ft.</li> <li>25 sq. ft. flaking and or peeling paint / wall covering</li> <li>see general note 1</li> </ul>
761-COMM-1 801-COMM-3 804-MARINE-3 1293-G-1 1345-G-4 1345-G-5 1445-HOBSON-9 1445-HOBSON-10	2224222	MISC., SHEET VINYL FLOORING kitchen, bedroom 1, hall, closets, laundry	250 Sq. Ft.	8	NO	G	0	O & M	
761-COMM-2 804-MARINE-4 1305-G-1	Y Y Y	MISC., SHEET VINYL FLOORING, porch 2 closet	12 Sq. Ft.	8	NO	G	0	O&M	

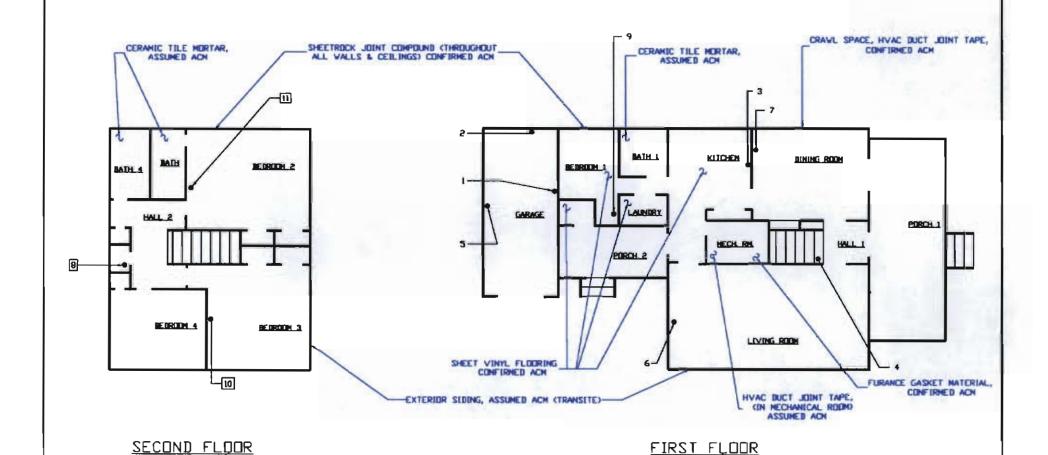
ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet

### ASBESTOS SURVEY BUILDING SUMMARY TABLE

# CHARLESTON NAVAL COMPLEX HOUSING

775 COMMISSARY ST. QUARTERS M-7 PLAN HD-23

разентные чен эне вышайнания польтория вышайна выша									
Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1305-G-2	Y	TSI, FURNACE, gasket material	*	*	*	*	*	0 & M	* see general note 3
NONE	A	MISC. CERAMIC TILE MORTAR, all bathrooms	375 Sq. Ft.	8	NO	G	0	O & M	
NONE	A	DUCT JOINT TAPE, mech rm.	30 DUCT JOINTS,	8	NO	G	0	O&M	previously repaired / encapsulated
NONE	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	O & M	* assessment not required on exterior materials
ASSUMED	A	EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft	8	NO	G	0	O&M	



LEGEND

. - SAMPLE LOCATION

2012382A ROT 3VITIZOR D31231 - XX

XX - NO ASBESTOS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor PLan (Type HD-23)
775 COMMISSARY ST. QUARTERS (M7)
Charleston Naval Base
Charleston, SC

DWG DATE: 28 JAN 98 DWG NAME: ASB 775

# CHARLESTON NAVAL COMPLEX HOUSING

801 COMMISSARY ST. QUARTERS M-8 PLAN HD-23

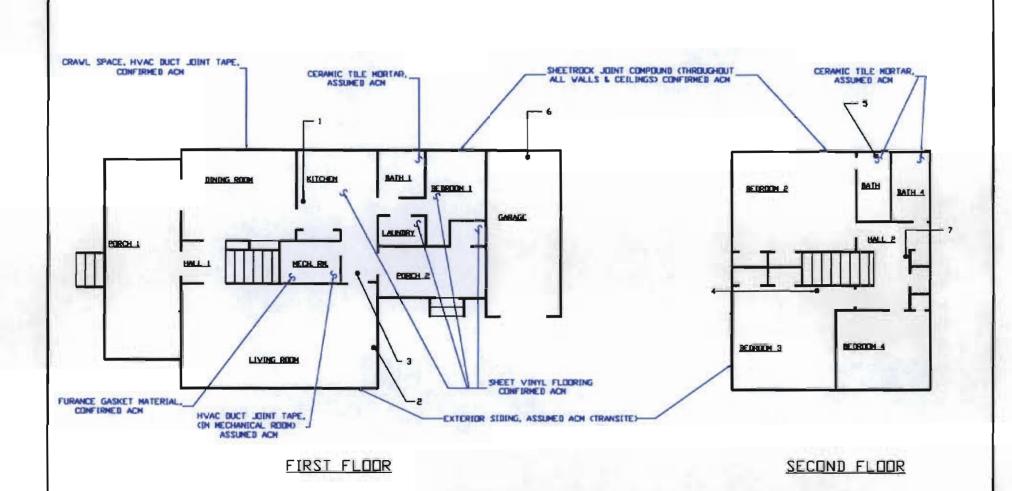
Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-I	Y	MISC, DUCT	35 DUCT	4	YES	SD	50	REMOVE	
1445-HOBSON-4	Y	JOINT TAPE,	JOINTS,	İ				OR	
1445-HOBSON-5	Y	hvac duct joints	various sizes -					REPAIR	
1445-HOBSON-6	Y	in crawl space	6in. to 24in.						
NONE	A	MISC. DUCT JOINT TAPE, mech rm.	30 DUCT JOINTS,	8	NO	G	O	O&M	previously repaired / encapsulated
761-COMM-3	N	MISC.	APPROX.	<del> </del>	YES, ONLY	G	< 1	REPAIR	damage in mech
761-COMM-7	N	SHEETROCK	5946 Sq. Ft.	6	WHERE		`` '	10171110	rm 3 sq. ft.
761-COMM-8	N	JOINT	55 10 54.11,		DAMAGED				upstairs bedroom
775-COMM-4	N	COMPOUND,							1 sq. ft. flaking
775-COMM-8	Y	walls and		}					and or peeling
775-COMM-9	Ñ	ceilings							paint / wall
801-COMM-4	N	throughout house							covering
1304-H-3	Y								covering
1304-H-4	Y								See General Note 1
1345-G-3	N								See General Hote 1
1351-G-2	N								
1445-HOBSON-2	N								
1445-HOBSON-3	N								
1455-HOBSON-6	N								
1455-HOBSON-9	N				1				
1455-HOBSON-10	N								1
761-COMM-1	N	MISC. SHEET	250 Sq. Ft.	8	NO	GOOD	0	O & M	
801-COMM-3	N	VINYL							
804-MARINE-3	N	FLOORING,							
1293-G-1	Y	kitchen, bedroom							
1345-G-4	N	1, hall, closets,							
1345-G-5	N	laundry							
1445-HOBSON-9	N	Í							
1445-HOBSON-10	N								t e

### ASBESTOS SURVEY BUILDING SUMMARY TABLE

# CHARLESTON NAVAL COMPLEX HOUSING

### 801 COMMISSARY ST. QUARTERS M-8

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
761-COMM-2 804-MARINE-4	Y Y	MISC. SHEET VINYL	12 Sq. Ft.	8	NO	GOOD	0	O & M	
1305-G-1	Y	FLOORING, porch 2 closet							
1305-G-2	Y	FURNACE, gasket material	*	*	*	*	*	O&M	* See General Note 3
ASSUMED	A	CERAMIC TILE MORTAR, all bathrooms	375 Sq. Ft.	8	NO	GOOD	0	O&M	
ASSUMED	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior material
ASSUMED	A	EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft.	8	NO	GOOD	0	O&M	



- SAMPLE LOCATION

XX - TESTED POSITIVE FOR ASBESTOS

XX - NO ASBESTOS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor PLan (Type HD-23) 801 COMMISSARY ST. QUARTERS (M8) Charleston Naval Base Charleston, SC

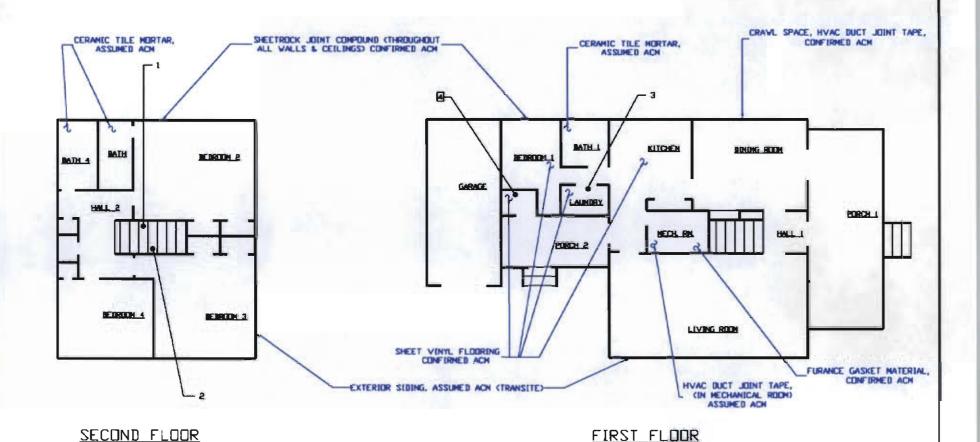
804 MARINE AVENUE QUARTERS M-5 PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-1	Y	MISC. DUCT	35 DUCT	4	YES	SD	50	REMOVE	
1445-HOBSON-4	Y	JOINT TAPE,	JOINTS,					OR	
1445-HOBSON-5	Y	hvac duct joints	VARIOUS					REPAIR	
1445-HOBSON-6	Y	in crawl space	SIZES - 6in. to						
		-	24in.		-				
761-COMM-3	N	SHEETROCK	APPROX.	6	YES, ONLY	G	< 1	REPAIR	damage in mech
761-COMM-7	N	JOINT	5946 Sq. Ft.	ana ana	WHERE		-		rm, - 1 sq. ft.
761-COMM-8	N	COMPOUND,	-		DAMAGED		To the same of the	AAA	• 7 sq. ft. flaking
775-COMM-4	N	walls and			1				and or peeling
775-COMM-8	Y	ceilings							paint / wall
775-COMM-9	N	throughout house							covering in
801-COMM-4	N				1				various rooms
1304-H-3	Y			!					
1304-H-4	Y			4			1		See General Note 1
1345-G-3	N						*	 	
1351-G-2	N								
1445-HOBSON-2	N								
1445-HOBSON-3	N								
1455-HOBSON-6	N	1						Į	
1455-HOBSON-9	N			}					
1455-HOBSON-10	N						1		
761-COMM-1	N	SHEET VINYL	250 Sq. Ft.	8	NO	G	0	0 & M	
801-COMM-3	N	FLOORING,	•						
804-MARINE-3	N	kitchen, bedroom					•		
1293-G-1	Y	1, hall, closets,							
1345-G-4	N	laundry							
1345-G-5	N	,		and the second			***************************************		
1445-HOBSON-9	N						1		
1445-HOBSON-10	N			-					
761-COMM-2	Y	SHEET VINYL	12 Sq. Ft.	8	NO	G	0	0 & M	
804-MARINE-4	Ý	FLOORING,	4,						
1305-G-I	Y	porch 2 closet							
1305-G-2	Y	FURNACE,	*	*	*	*	*	0 & M	* See General Note 3
	_	gasket material			-				

# CHARLESTON NAVAL COMPLEX HOUSING

804 MARINE AVENUE QUARTERS M-5 PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
ASSUMED	A	CERAMIC TILE MORTAR, all bathrooms	375 Sq. Ft.	8	NO	G	0	O&M	
ASSUMED	A	DUCT JOINT TAPE, mech rm.	30 DUCT JOINTS,	8	NO	G	0	O & M	previously repaired / encapsulated
ASSUMED	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior material
ASSUMED	А	EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft.	8	NO	G	0	O&M	



• - SAMPLE LOCATION

XX - TESTED POSITIVE FOR ASBESTOS

XX - NO ASBESTUS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor PLan (Type HD-23) 804 MARINE AVE. QUARTERS (M5) Charleston Naval Base Charleston, SC

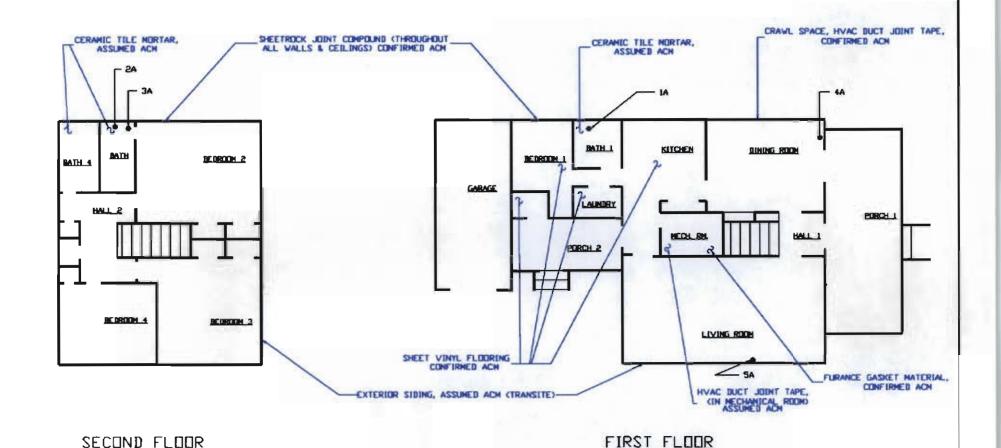
809 COMMISSARY ST. QUARTERS M-9 PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-1	Y	MISC. DUCT	35 DUCT	4	YES	SD	50	REMOVE	······································
1445-HOBSON-4	Y	JOINT TAPE,	JOINTS,		, ,			OR	
1445-HOBSON-5	Y	hvac duct joints	VARIOUS					REPAIR	
1445-HOBSON-6	Y	in crawl space	SIZES - 6in. to 24in.	·	-				
761-COMM-3	N	MISC.	APPROX.	6	YES, ONLY	G	< 1	REPAIR	damage in mech
761-COMM-7	N	SHEETROCK	5946 Sq. Ft.	Ì	WHERE				rm 2 sq. ft.
761-COMM-8	N	JOINT	•		DAMAGED				2 sq. ft. flaking
775-COMM-4	N	COMPOUND,							and or peeling
775-COMM-8	Y	walls and							paint / wall
775 <b>-</b> COMM-9	N	ceilings							covering in
801-COMM-4	N	throughout house							various rooms
1304-H-3	Y	Ü							Yanous rooms
1304-H-4	Y								See General Note 1
1345-G-3	N						İ		
1351-G-2	N								
1445-HOBSON-2	N								
1445-HOBSON-3	N								
1455-HOBSON-6	N								
1455-HOBSON-9	N								
1455-HOBSON-10	N								
761 <b>-</b> COMM-1	N	MISC SHEET	250 Sq. Ft.	8	YES	G	< 1	REPAIR	
801-COMM-3	N	VINYL	•					and	
804-MARINE-3	N	FLOORING,			ONLY			O & M	
1293-G-1	Y	kitchen, bedroom			WHERE		ļ		
1345-G-4	N	1, hall, closets,			DAMAGED		İ		
1345-G-5	N	laundry							
1445-HOBSON-9	N								
1445-HOBSON-10	N								
761-COMM-2	Y	MISC. SHEET	12 Sq. Ft.	8	NO	G	0	O & M	***************************************
804-MARINE-4	Y	VINYL	•	-		_			
1305-G-1	Y	FLOORING,		50000000					
		porch 2 closet		Sanata					
1305-G-2	Y	TSI, FURNACE,	*	*	*	*	*	O & M	* See General Note 3
		gasket material							

# CHARLESTON NAVAL COMPLEX HOUSING

809 COMMISSARY ST. QUARTERS M-9 PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
ASSUMED	A	MISC. CERAMIC TILE MORTAR, all bathrooms	375 Sq. Ft.	8	NO	G	0	O & M	•
ASSUMED	A	MISC. DUCT JOINT TAPE, mech rm.	30 DUCT JOINTS	8	NO	G	0	O & M	previously repaired / encapsulated
ASSUMED	A	MISC. EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior materials
ASSUMED	A	MISC. EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft.	8	NO	G	0	O&M	



. - SAMPLE LOCATION

XX - TESTED POSITIVE FOR ASBESTOS

XX - NO ASBESTOS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor PLan (Type HD-23) 809 COMMISSARY ST. QUARTERS (M9) Charleston Naval Base Charleston, SC

### NOTE:

- ASBESTOS DUCT JOINT TAPE IN THE CRAWL SPACE OF QUARTERS EE WAS REMOVED AND REPLACED WITH NON-ASBESTOS TAPE DURING SEPTEMBER OF 1997.
- ALL OTHER ACM FOUND DURING THE INSPECTION COVERED BY THIS REPORT REMAINS IN PLACE.

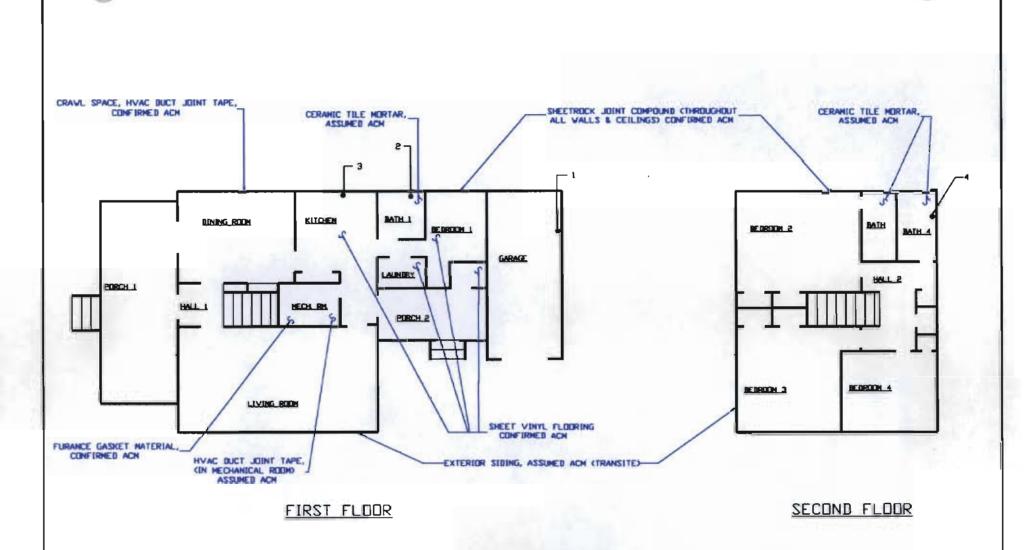
1285 AVENUE G QUARTERS EE PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-1 1445-HOBSON-4 1445-HOBSON-5 1445-HOBSON-6	YES YES YES YES	MISC., DUCT JOINT TAPE, hvac duct joints in crawl space	35 DUCT JOINTS, VARIOUS SIZES - 6in. to 24in.	4	YES	SD	50	REMOVE OR REPAIR	
761-COMM-3 761-COMM-7 761-COMM-8 775-COMM-4 775-COMM-9 801-COMM-4 1304-H-3 1304-H-4 1345-G-3 1351-G-2 1445-HOBSON-2 1445-HOBSON-3 1455-HOBSON-9 1455-HOBSON-9	NO NO NO YES NO NO YES NO NO NO NO NO NO	MISC,. SHEETROCK JOINT COMPOUND, walls and ceilings throughout house	APPROX. 5946 Sq. Ft.	6	YES, ONLY WHERE DAMAGED	G	< I	REPAIR	damage in mech rm 1 sq. ft. damage in laundry 10 sq. ft. 3 sq. ft. flaking and or peeling paint / wall covering in various rooms  See General Note 1
761-COMM-1 801-COMM-3 804-MARINE-3 1293-G-1 1345-G-4 1345-G-5 1445-HOBSON-9 1445-HOBSON-10	NO NO NO YES NO NO NO	MISC., SHEET VINYL FLOORING kitchen, bedroom I, hall, closets, laundry	250 Sq. Ft.	6	YES ONLY WHERE DAMAGED	G	<1	REPAIR and O & M	
761-COMM-2 804-MARINE-4 1305-G-1	YES YES YES	SHEET VINYL FLOORING, porch 2 closet	12 Sq. Ft.	8	NO	G	0	O&M	
1305-G-2	YES	FURNACE, gasket material	*	*	*	*	*	0&M	* See General Note 3

## CHARLESTON NAVAL COMPLEX HOUSING

1285 AVENUE G QUARTERS EE PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
ASSUMED	A	CERAMIC TILE MORTAR, all bathrooms	375 Sq. Ft.	8	NO	G	0	O&M	
ASSUMED	A	DUCT JOINT TAPE, mech rm.	30 DUCT JOINTS,	8	NO	G	0	O & M	previously repaired / encapsulated
NONE	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior materials
NONE	A	EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft.	8	NO	G	0	O & M	



. - SAMPLE LOCATION

XX - TESTED POSITIVE FOR ASBESTOS

XX - NO ASBESTOS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777

Floor PLan (Type HD-23) 1285 AVE. "G" QUARTERS (EE) Charleston Naval Base Charleston, SC

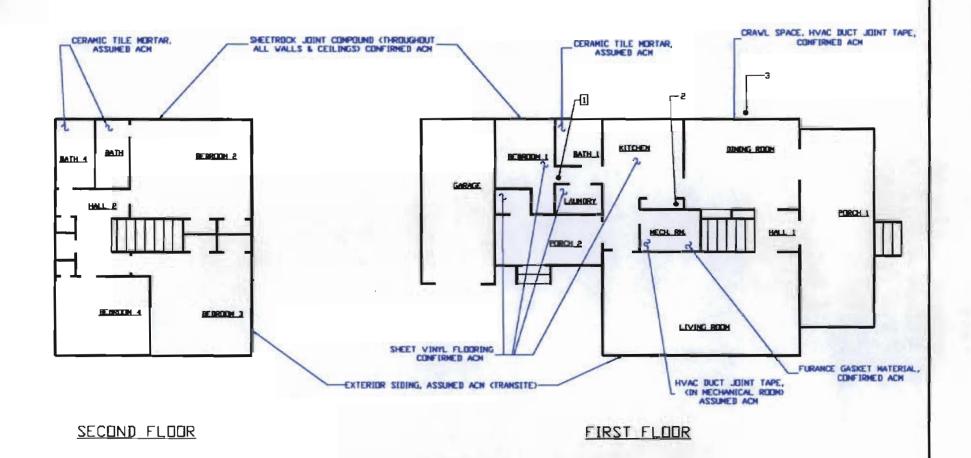
1288 AVENUE H QUARTERS FF PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-Н-1	YES	DUCT JOINT,	35 DUCT	4	YES	SD	50	REMOVE	
1445-HOBSON-4	YES	hvac duct joints	JOINTS,	1				OR	ŧ
1445-HOBSON-5	YES	in crawl space	VARIOUS					REPAIR	
1445-HOBSON-6	YES	•	SIZES - 6in, to		<b>!</b>				
			24in.						
761-COMM-3	NO	SHEETROCK	APPROX.	6	YES, ONLY	G	< 1	REPAIR	damage in mech
761-COMM-7	NO	JOINT	5946 Sq. Ft.		WHERE				rm 3 sq. ft.
761 <b>-</b> COMM-8	NO	COMPOUND,	•		DAMAGED				• 5 sq. ft. flaking
775-COMM-4	NO	walls and							and or peeling
775-COMM-8	YEŞ	ceilings							paint / wall
775-COMM-9	NO	throughout house							covering in
801-COMM-4	NO	Ŭ							various rooms.
1304-H-3	YES								741104010011101
1304-H-4	YES								See General Note 1
1345-G-3	NO								See General Prote 1
1351-G-2	NO								
1445-HOBSON-2	NO								
1445-HOBSON-3	NO								
1455-HOBSON-6	NO					! ! !			
1455-HOBSON-9	NO					; ;			
1455-HOBSON-10	NO								
761-COMM-1	NO	SHEET VINYL	262 Sq. Ft,	6	YES	GOOD	< i	REPAIR	Damage in hall, just
801-COMM-3	NO	FLOORING,	•	_				and	outside laundry.
804-MARINE-3	NO	kitchen, bedroom			ONLY			O & M	,
1293-G-1	YES	1, hall, closets,			WHERE				
1345-G-4	NO	laundry, porch			DAMAGED				
1345-G-5	NO	closet							
1445-HOBSON-9	NO								
1445-HOBSON-10	NO								
1305-G-2	YES	FURNACE,	*	*	*	*	*	O&M	* See General Note 3
		gasket material							200 200000
ASSUMED	Α	CERAMIC TILE	375 Sq. Ft,	8	NO	GOOD	0	O&M	
		MORTAR, all	<del></del>				,	2 32 1.72	
		bathrooms							

## CHARLESTON NAVAL COMPLEX HOUSING

1288 AVENUE H QUARTERS FF PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
ASSUMED	A	DUCT JOINT TAPE, mech rm.	30 DUCT JOINTS	8	NO	GOOD	0	O&M	previously repaired / encapsulated
ASSUMED	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior materials
ASSUMED	A	EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft.	8	NO	GOOD	0	O & M	



. - SAMPLE LUCATION

XX - TESTED POSITIVE FOR ASBESTOS

XX - NO ASPESTOS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor PLan (Type HD-23)
1288 AVE. "H" QUARTERS (FF)
Charleston Naval Base
Charleston, SC

### NOTE:

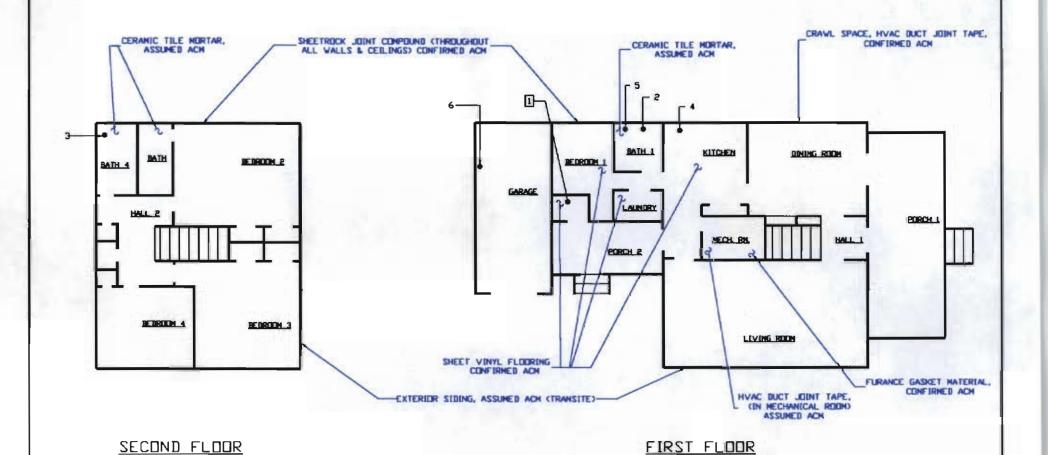
- ASBESTOS DUCT JOINT TAPE IN THE CRAWL SPACE OF QUARTERS DD WAS REMOVED AND REPLACED WITH NON-ASBESTOS TAPE DURING SEPTEMBER OF 1997.
- ALL OTHER ACM FOUND DURING THE INSPECTION COVERED BY THIS REPORT REMAINS IN PLACE.

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-1 1445-HOBSON-4 1445-HOBSON-5 1445-HOBSON-6	YES YES YES YES	DUCT JOINT, hvac duct joints in crawl space	APPROX. 35 DUCT JOINTS, VARIOUS SIZES - 6in. to 24in.	4	YES	SD	50	REMOVE OR REPAIR	
761-COMM-3 761-COMM-7 761-COMM-8 775-COMM-4 775-COMM-9 801-COMM-4 1304-H-3 1304-H-4 1345-G-3 1351-G-2 1445-HOBSON-2 1445-HOBSON-6 1455-HOBSON-9 1455-HOBSON-10	NO NO NO YES NO NO YES YES NO NO NO NO NO NO	SHEETROCK JOINT COMPOUND, all walls and ceilings throughout house	APPROX. 5946 Sq. Ft.	6	YES, ONLY WHERE DAMAGED	G	< 1	REPAIR	damage in mech rm 1 sq. ft.     10 sq. ft. flaking and or peeling paint / wall covering in various rooms  See General Note 3
761-COMM-1 801-COMM-3 804-MARINE-3 1293-G-1 1345-G-4 1345-G-5 1445-HOBSON-9 1445-HOBSON-10	NO NO NO YES NO NO NO	SHEET VINYL FLOORING, kitchen, bedroom I, hall, closets, laundry, porch closet	262 Sq. Ft.	6	NO	G	0	O & M	
1305-G-2	YES	FURNACE, gasket material	*	*	*	*	*	O & M	* See General Note 3
ASSUMED	A	CERAMIC TILE MORTAR, all bathrooms	375 Sq. Ft.	8	NO	G	0	O & M	

# CHARLESTON NAVAL COMPLEX HOUSING

1293 AVENUE G QUARTERS DD PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
ASSUMED	A	DUCT JOINT TAPE, mech rm.	30 DUCT JOINTS,	8	NO	G	0	O & M	previously repaired / encapsulated
ASSUMED	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior materials
ASSUMED	A	EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft.	8	NO	G	0	O & M	



SAMPLE LOCATION

XX - TESTED POSITIVE FOR ASBESTOS

XX - NO ASBESTOS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor PLan (Type HD-23)
1293 AVE. "G" QUARTERS (DD)
Charleston Naval Base
Charleston, SC

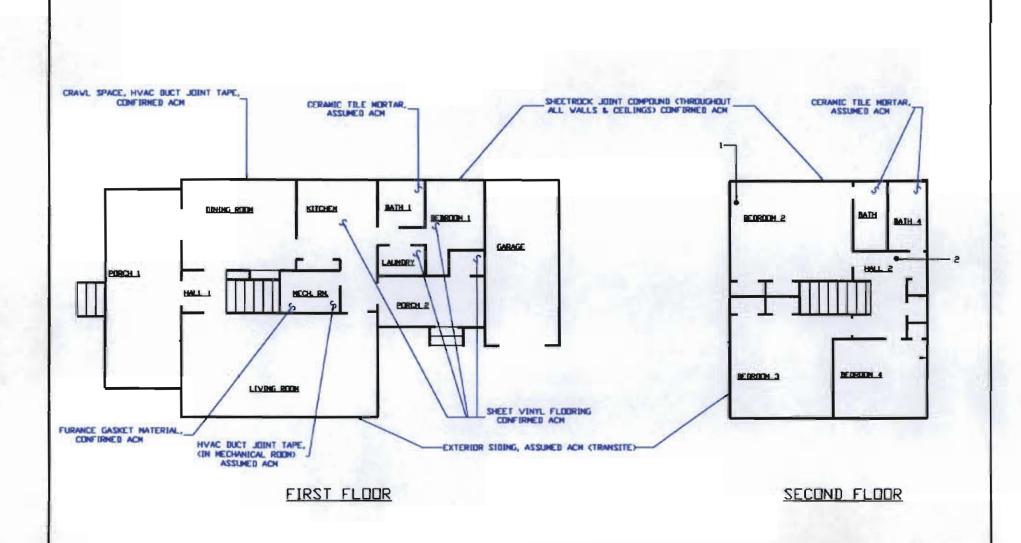
1294 AVENUE H QUARTERS GG PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-1 1445-HOBSON-4 1445-HOBSON-5 1445-HOBSON-6	YES YES YES YES	MISC., DUCT JOINT TAPE hvac duct joints in crawl space	APPROX, 35 DUCT JOINTS, VARIOUS SIZES - 6in. to 24in.	4	YES	SD	50	REMOVE OR REPAIR	
761-COMM-3 761-COMM-7 761-COMM-8 775-COMM-4 775-COMM-9 801-COMM-4 1304-H-3 1304-H-4 1345-G-3 1351-G-2 1445-HOBSON-2 1455-HOBSON-6 1455-HOBSON-9 1455-HOBSON-10	NO NO NO YES NO NO YES NO NO NO NO NO NO NO NO	MISC., SHEETROCK JOINT COMPOUND, walls and ceilings throughout house	APPROX. 5946 Sq. Ft.	6	YES, ONLY WHERE DAMAGED	G	2	REPAIR O & M	damage in mech rm 1 sq. ft.     120 sq. ft. flaking and or peeling paint / wall covering in various rooms.  See General Note 1
761-COMM-1 801-COMM-3 804-MARINE-3 1293-G-1 1345-G-4 1345-G-5 1445-HOBSON-9 1445-HOBSON-10	NO NO NO YES NO NO NO	SHEET VINYL FLOORING, kitchen, bedroom 1, hall, closets, laundry, porch closet	262 Sq. Ft.	6	NO	G	0	O & M	
1305-G-2	YES	FURNACE, gasket material	*	*	*	*	*	O & M	* See General Note 3
ASSUMED	A	CERAMIC TILE MORTAR, all bathrooms	375 Sq. Ft.	8	NO	G	0	O & M	

## CHARLESTON NAVAL COMPLEX HOUSING

1294 AVENUE H QUARTERS GG PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
ASSUMED	A	DUCT JOINT TAPE, mech rm.	30 DUCT JOINTS,	8	NO	G	0	O & M	previously repaired / encapsulated
ASSUMED	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior materials
ASSUMED	Α	EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft.	8	NO	G	0	O & M	



. - SAMPLE LOCATION

XX - TESTED POSITIVE FOR ASBESTOS

XX - NO ASBESTOS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor PLan (Type HD-23)
1294 AVE. "H" QUARTERS (HH)
Charleston Naval Base
Charleston, SC

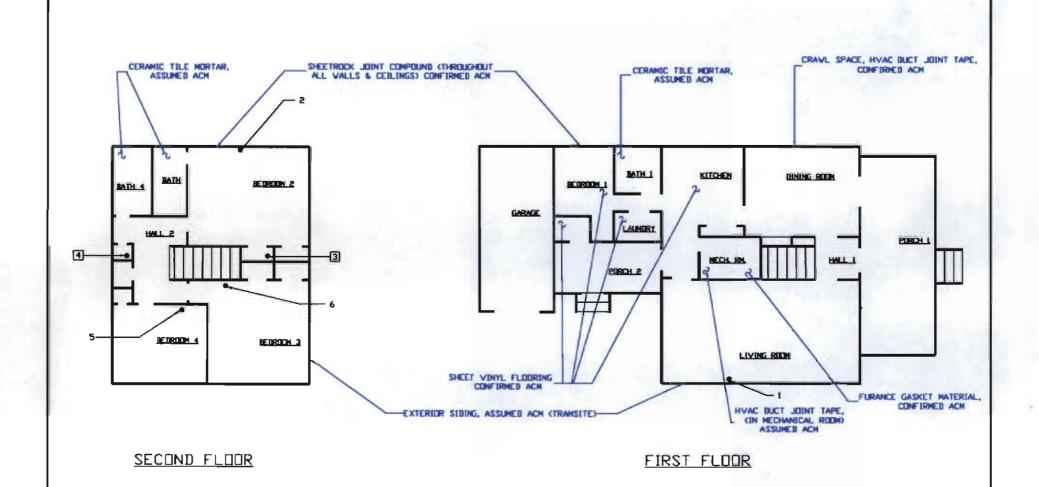
1304 AVENUE H QUARTERS HH PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-1	YES	MISC., DUCT	APPROX. 35	4	YES	SD	50	REMOVE	***************************************
1445-HOBSON-4	YES	JOINT TAPE,	DUCT JOINTS,	ļ				OR	
1445-HOBSON-5	YES	on hvac duct	VARIOUS					REPAIR	
1445-HOBSON-6	YES	joints in crawl	SIZES - 6in. to		1				
		space	24in.						
761-COMM-3	NO	MISC.,	APPROX.	6	YES, ONLY	G	< 1	REPAIR	damage in mech
761-COMM-7	NO	SHEETROCK	5946 Sq. Ft.	ļ	WHERE				rm, - 2 sq. ft.
761-COMM-8	NO	JOINT	•		DAMAGED			O & M	• 4 sq. ft. flaking
775-COMM-4	NO	COMPOUND,							and or peeling
775-COMM-8	YES	walls and							paint / wall
775-COMM-9	NO	ceilijngs							covering in
801-COMM-4	NO	throughout house							various upstairs
1304-H-3	YES								rooms.
1304-H-4	YES				i				1001110.
1345-G-3	NO						İ		See General Note 1
1351-G-2	NO								Coo Conciai Noio 1
1445-HOBSON-2	NO								
1445-HOBSON-3	NO						ļ		
1455-HOBSON-6	NO						İ		
1455-HOBSON-9	NO								
1455-HOBSON-10	NO								
761-COMM-1	NO	MISC., SHEET	262 Sq. Ft.	6	NO	G	0	O&M	***************************************
801-COMM-3	NO	VINYL							
804-MARINE-3	NO	FLOORING,							
1293-G-1	YES	kitchen, bedroom							
1345-G-4	NO	1, hall, closets,							
1345-G-5	NO	laundry, porch							
1445-HOBSON-9	NO	closet							
1445-HOBSON-10	NO				]				
1305-G-2	YES	TSI, FURNACE,	*	*	*	*	*	O & M	* See General Note 3
		gasket material						0 4 111	277 30110101 11010 3
ASSUMED	Α	DUCT JOINT	30 DUCT	8	NO	G	0	O & M	previously repaired /
		TAPE, mech rm.	JOINTS,						encapsulated

## CHARLESTON NAVAL COMPLEX HOUSING

1304 AVENUE H QUARTERS HH PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
ASSUMED	A	MISC., CERAMIC TILE MORTAR, all bathrooms	375	8	NO	G	0	O&M	
ASSUMED	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior materials
ASSUMED	A	EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft.	8	NO	G	0	O&M	



. - SAMPLE LOCATION

XX - TESTED POSITIVE FOR ASBESTOS

XX - NO ASBESTOS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor PLan (Type HD-23)
1304 AVE. "H" QUARTERS (HH)
Charleston Naval Base
Charleston, SC

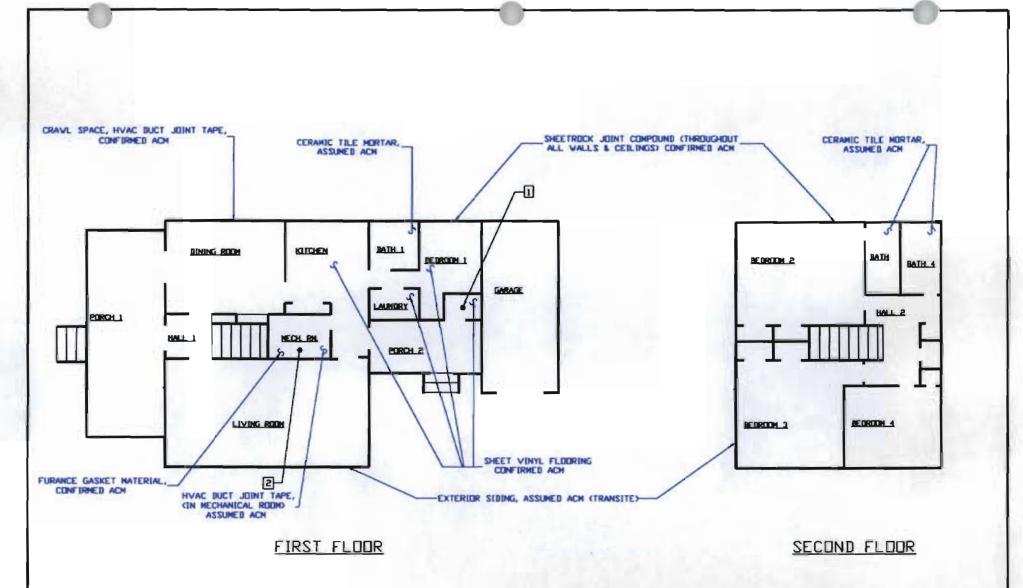
1305 AVENUE G QUARTERS CC PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-1	YES	MISC., DUCT	APPROX. 35	4	YES	SD	50	REMOVE	
1445-HOBSON-4	YES	JOINT TAPE,	DUCT JOINTS,			***************************************		OR	
1445-HOBSON-5	YES	on hvac duct	VARIOUS					REPAIR	
1445-HOBSON-6	YES	joints in crawl	SIZES - 6in. to						
		space	24in.				ļ		
ASSUMED	Α	DUCT JOINT	30 DUCT	8	NO	G	0	0 & M	previously repaired /
		TAPE, mech rm.	JOINTS,						encapsulated
761-COMM-3	NO	MISC.,	APPROX.		YES, ONLY	G	< 1	REPAIR	damage in mech
761-COMM-7	NO	SHEETROCK	5946 Sq. Ft.	6	WHERE				rm 1 sq. ft.
761-COMM-8	NO	JOINT	•		DAMAGED			O&M	• 10 sq. ft. flaking
775-COMM-4	NO	COMPOUND,		:					and or peeling
775-COMM-8	YES	walls and							paint / wall
775-COMM-9	NO	ceilings							covering in
801-COMM-4	NO	throughout house							upstairs hall.
1304-H-3	YES								apolano nam
1304-H-4	YES								See General Note #1
1345-G-3	NO								See General Hotell 1
1351-G-2	NO								
1445-HOBSON-2	NO								
1445-HOBSON-3	NO								
1455-HOBSON-6	NO								
1455-HOBSON-9	NO								
1455-HOBSON-10	NO								
761-COMM-1	NO	MISC., SHEET	250 Sq. Ft.	8	NO	G	0	O & M	
801-COMM-3	NO	VINYL	•	4 4 6 6 8	-				
804-MARINE-3	NO	FLOORING,			ALA CALLED TO THE CALLED TO TH				
1293-G-1	YES	kitchen, bedroom							
1345-G-4	NO	1, hall, closets,			ANALANA				
1345-G-5	NO	laundry							
1445-HOBSON-9	NO	•			4		į		
1445-HOBSON-10	NO				***************************************				
761-COMM-2	YES	MISC., SHEET	12 Sq. Ft.	8	NO	G	0	0 & M	<del> </del>
804-MARINE-4	YES	VINYL FLOOR,				_			
1305-G-1	YES	porch closet							

# CHARLESTON NAVAL COMPLEX HOUSING

1305 AVENUE G QUARTERS CC PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1305-G-2	YES	TSI, FURNACE, gasket material	*	*	*	*	*	O & M	* See General Note 3
ASSUMED	A	MISC., CERAMIC TILE MORTAR, all bathrooms	375 Sq. Ft.	8	NO	G	0	O&M	
ASSUMED	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior materials
ASSUMED	A	EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft.	8	NO	G	0	O & M	



. - SAMPLE LUCATION

XX - TESTED POSITIVE FOR ASBESTOS

XX - NO ASBESTOS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor PLan (Type HD-23)
1305 AVE. "G" QUARTERS (CC)
Charleston Naval Base
Charleston, SC

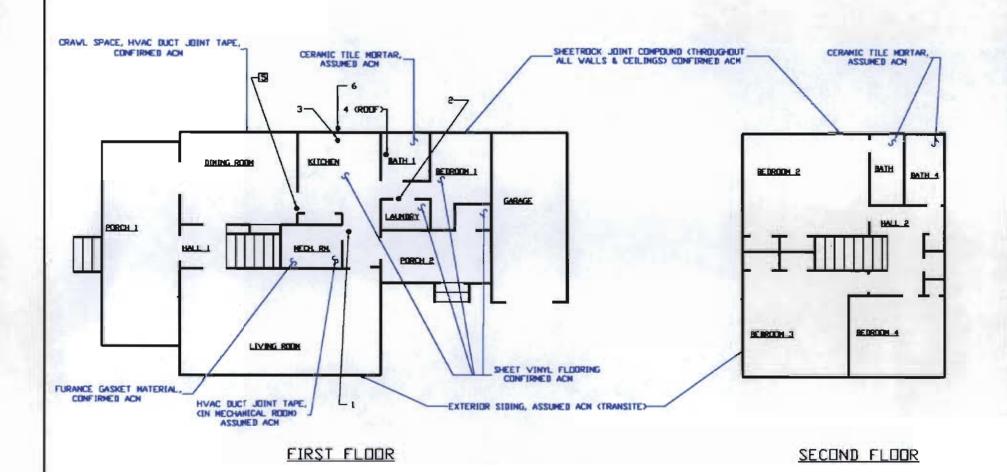
1310 AVENUE H QUARTERS 1 I PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-1 1445-HOBSON-4 1445-HOBSON-5 1445-HOBSON-6	YES YES YES YES	MISC., DUCT JOINT TAPE, on hvac duct joints in crawl space	APPROX. 35 DUCT JOINTS, VARIOUS SIZES - 6in. to 24in.	4	YES	SD	50	REMOVE OR REPAIR	
ASSUMED	A	MISC., DUCT JOINT TAPE, mech rm.	30 DUCT JOINTS,	8	NO	G	0	O&M	previously repaired / encapsulated
761-COMM-3 761-COMM-7 761-COMM-8 775-COMM-4 775-COMM-9 801-COMM-4 1304-H-3 1304-H-4 1345-G-3 1351-G-2 1445-HOBSON-2 1445-HOBSON-3 1455-HOBSON-9 1455-HOBSON-10	NO NO NO YES NO NO YES NO NO NO NO NO NO NO NO	MISC., SHEETROCK JOINT COMPOUND, walls and ceilings throughout house	APPROX. 5946 Sq. Ft.	6	YES, ONLY WHERE DAMAGED	G	< 1	REPAIR O & M	damage in mech rm 1 sq. ft.  See General Note 1
761-COMM-1 801-COMM-3 804-MARINE-3 1293-G-1 1345-G-4 1345-G-5 1445-HOBSON-9	NO NO NO YES NO NO NO	MISC., SHEET VINYL FLOORING, bedroom 1, laundry	103 Sq. Ft	6	YES, ONLY WHERE DAMAGED	G	2	REPAIR O & M	
761-COMM-2 804-MARINE-4 1305-G-1	YES YES YES	MISC., SHEET VINYL FLOOR, porch closet	12 Sq. Ft.	8	NO	G	0	O & M	

# CHARLESTON NAVAL COMPLEX HOUSING

1310 AVENUE H QUARTERS I I PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1310-H-1 1310-H-2 1310-H-3 1310-H-5	N N Y Y	MISC., SHEET VINYL FLOORING kitchen, hall,	147 Sq. Ft.	8	NO	G	0	O & M	
1305-G-2 ASSUMED	YES	closets TSI, FURNACE, gasket material	*	*	*	*	*	0 & M	* See General Note 3
ASSUMED	Α	CERAMIC TILE MORTAR, ali bathrooms	375 Sq. Ft.	8	NO	G	0	O & M	
ASSUMED	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior materials
ASSUMED	A	EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft.	8	NO	G	0	O & M	



. - SAMPLE LOCATION

XX - TESTED POSITIVE FOR ASBESTOS

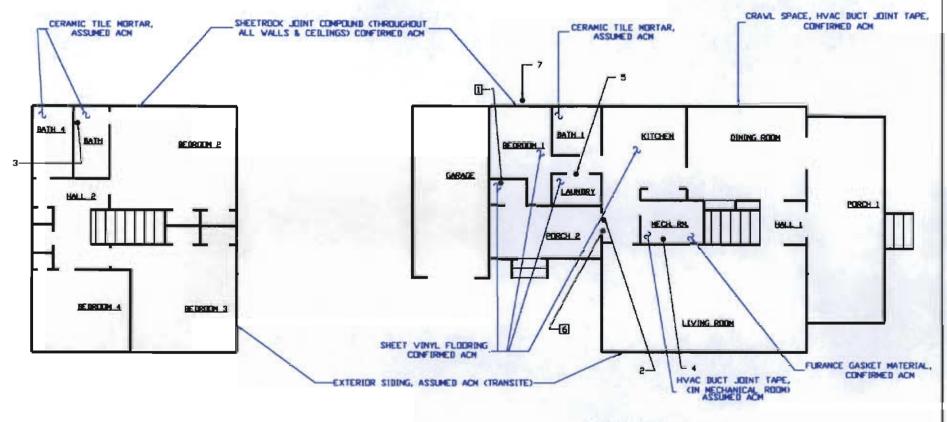
XX - NO ASSESTOS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor PLan (Type HD-23) 1310 AVE. "H" QUARTERS (II) Charleston Naval Base Charleston, SC

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-1	YES	MISC., DUCT	APPROX. 35	4	YES	SD	50	REMOVE	The state of the s
1445-HOBSON-4	YES	JOINT TAPE, on	DUCT JOINTS,					OR	
1445-HOBSON-5	YES	hvac duct joints	VARIOUS					REPAIR	
1445-HOBSON-6	YES	in crawl space	SIZES - 6in. to	1					
·		[	24in.						
761-COMM-3	NO	MISC.,	APPROX.	6	YES, ONLY	G	< 1	REPAIR	<ul> <li>damage in mech</li> </ul>
761-COMM-7	NO	SHEETROCK	5946 Sq. Ft.		WHERE				rm 1 sq. ft.
761-COMM-8	NO	JOINT	}		DAMAGED	}	<b>!</b>	O & M	
775-COMM-4	NO	COMPOUND,					ĺ		See General Note I
775-COMM-8	YES	walls and							
775-COMM-9	NO	ceilings			1		•	İ	
801-COMM-4	NO	throughout house			1				
1304-H-3	YES	_		3			į		
1304-H-4	YES				ļ		;		
1345-G-3	NO							ļ	1
1351-G-2	NO							ĺ	
1445-HOBSON-2	NO								
1445-HOBSON-3	NO							######################################	
1455-HOBSON-6	NO							<b>Water</b>	
1455-HOBSON-9	NO						1	ĺ	1
1455-HOBSON-10	NO			1				<b>L</b>	
761-COMM-1	NO	MISC., SHEET	103 Sq. Ft.	8	NO	G	0	O&M	
801-COMM-3	NO	VINYL	•		4				
804-MARINE-3	NO	FLOORING,						C. A. C. C. C. C. C. C. C. C. C. C. C. C. C.	
1293-G-1	YES	bedroom 1,						TWO THE THE THE THE THE THE THE THE THE THE	
1345-G-4	NO	laundry					Ĺ		ļ
1345-G-5	NO			1				r aga	
1445-HOBSON-9	NO						:	West and the second sec	
1445-HOBSON-10	NO							T. L. L. L. L. L. L. L. L. L. L. L. L. L.	
761-COMM-2	YES	MISC., SHEET	12 Sq. Ft.	8	NO	G	0	O&M	
804-MARINE-4	YES	VINYL							
1305-G-1	YES	FLOORING,						ALADANA	
		porch closet							

1311 AVENUE G QUARTERS B B PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1311-G-2 1311-G-5 1311-G-6	N N Y	MISC., SHEET VINYL FLOORING kitchen, hall	108 Sq. Ft.	6	YES only where damaged	G	2	REPAIR O & M	Damage, 2 sq. ft. @ entrance door.
1305-G-2	YES	TSI, FURNACE, gasket material	*	*	*	*	*	O&M	* See General Note 3
ASSUMED	A	MISC., CERAMIC TILE MORTAR, all bathrooms	375 Sq. Ft.	8	NO	G	0	O&M	
ASSUMED	A	MISC., DUCT JOINT TAPE, mech rm.	30 DUCT JOINTS,	8	NO	G	0	O&M	previously repaired / encapsulated
ASSUMED	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior materials
ASSUMED	A	EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft.	8	NO	G	0	O&M	



SECOND FLOOR

FIRST FLOOR

#### LEGEND

. - SAMPLE LOCATION

XX - TESTED POSITIVE FOR ASBESTOS

XX - NO ASBESTOS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777

Floor PLan (Type HD-23) 1311 AVE. "G" QUARTERS (BB) Charleston Naval Base Charleston, SC

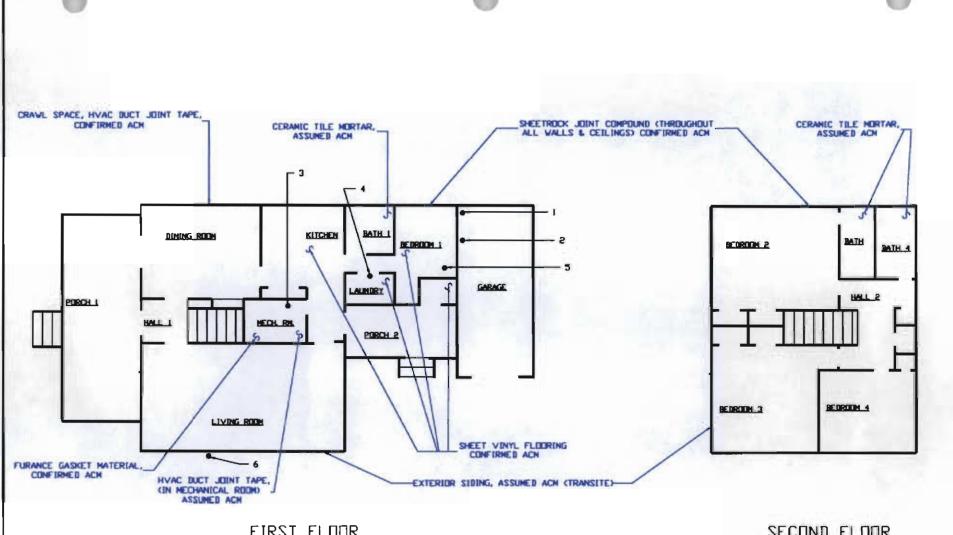
1345 AVENUE G QUARTERS A A PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-1 1445-HOBSON-4 1445-HOBSON-5 1445-HOBSON-6	YES YES YES YES	DUCT JOINT TAPE, on hvac duct joints in crawl space	APPROX. 35 DUCT JOINTS, VARIOUS SIZES - 6in, to 24in.	4	YES	SD	50	REMOVE OR REPAIR	
761-COMM-3 761-COMM-7 761-COMM-8 775-COMM-4 775-COMM-9 801-COMM-4 1304-H-3 1304-H-4 1345-G-3 1351-G-2 1445-HOBSON-2 1445-HOBSON-3 1455-HOBSON-9 1455-HOBSON-9	NO NO NO YES NO YES NO NO YES NO NO NO NO NO NO	SHEETROCK JOINT COMPOUND, walls and ceilings throughout house	APPROX. 5946 Sq. Ft.	6	YES, ONLY WHERE DAMAGED	G	< 1	REPAIR O & M	<ul> <li>damage in mech rm 1 sq. ft.</li> <li>kitchen ceiling, water damage 20 sq. ft.</li> <li>2 sq. ft flaking / peeling paint in various rooms.</li> </ul> See General Note 1
761-COMM-1 801-COMM-3 804-MARINE-3 1293-G-1 1345-G-4 1345-G-5 1445-HOBSON-9 1445-HOBSON-10 761-COMM-2	NO NO NO YES NO NO NO NO	SHEET VINYL FLOORING, kitchen, bedroom 1, hall, closets, laundry SHEET VINYL	250 Sq. Ft.	8	NO	G	0	O & M	
804-MARINE-4 1305-G-1	YES YES	FLOORING, porch closet	12 Sq. Ft.	8	NU	G	U	U&M	
1305-G-2	YES	FURNACE, gasket material	*	*	*	*	*	O&M	* See General Note 3

# CHARLESTON NAVAL COMPLEX HOUSING

1345 AVENUE G QUARTERS A A PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
ASSUMED	A	CERAMIC TILE MORTAR, all bathrooms	375 Sq. Ft.	8	NO	G	0	O&M	
ASSUMED	A	DUCT JOINT TAPE, mech rm.	30 DUCT JOINTS,	8	NO	G	0	O&M	previously repaired / encapsulated
ASSUMED	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior materials
ASSUMED	A	EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft.	8	NO	G	0	O&M	



FIRST FLOOR

SECOND FLOOR

#### LEGEND

• - SAMPLE LOCATION

XX - TESTED POSITIVE FOR ASBESTOS

XX - NO ASBESTOS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777

Floor PLan (Type HD-23) 1345 AVE. "G" QUARTERS (AA) Charleston Naval Base Charleston, SC

## CHARLESTON NAVAL COMPLEX HOUSING

1350 AVENUE H QUARTERS J J PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288- <b>H-</b> 1	YES	DUCT JOINT	APPROX, 35	4	YES	SD	50	REMOVE	
1445-HOBSON-4	YES	TAPE, on hvac	DUCT JOINTS,		ļ			OR	
1445-HOBSON-5	YES	duct joints in	VARIOUS			Į.		REPAIR	
1445-HOBSON-6	YES	crawl space	SIZES - 6in. to 24in.				:		<u> </u>
761-COMM-3	NO	SHEETROCK	APPROX.	6	YES, ONLY	G	< 1	REPAIR	damage in mech
761-COMM-7	NO	JOINT	5946 Sq. Ft.		WHERE				rm 1 sq. ft.
761-COMM-8	NO	COMPOUND,	•		DAMAGED			O&M	
775-COMM-4	NO	walls and			'				See General Note 1
775-COMM-8	YES	ceilings		A CONTRACTOR OF THE CONTRACTOR					
775-COMM-9	NO	throughout house					75.95		
801-COMM-4	NO								
1304-H-3	YES	!					]		
1304-H-4	YES			distriction					
1345-G-3	NO						-		
1351-G-2	NO			ļ					
1445-HOBSON-2	NO			****					
1445-HOBSON-3	NO			<b>}</b>			ļ		
1455-HOBSON-6	NO								
1455-HOBSON-9	NO						1		
1455-HOBSON-10	NO			EL CONTROL DE LA					
761-COMM-1	NO	SHEET VINYL	250 Sq. Ft.	6	YES, ONLY	G	1	O&M	
801-COMM-3	NO	FLOORING,			WHERE	_		0 22 332	
804-MARINE-3	NO	kitchen, bedroom		Ì	DAMAGED				
1293-G-1	YES	1, hall, closets,		ĺ					
1345-G-4	NO	laundry							
1345-G-5	NO	,							
1445-HOBSON-9	NO								
1445-HOBSON-10	NO								
761-COMM-2	YES	SHEET VINYL	12 Sq. Ft.	8	NO	G	0	O&M	······································
804-MARINE-4	YES	FLOOR, porch	<b> 1</b>			_		2 34	
1305-G-1	YES	closet							
1305-G-2	YES	FURNACE,	*	*	*	*	*	O&M	* See General Note 3
		gasket material			į			_	

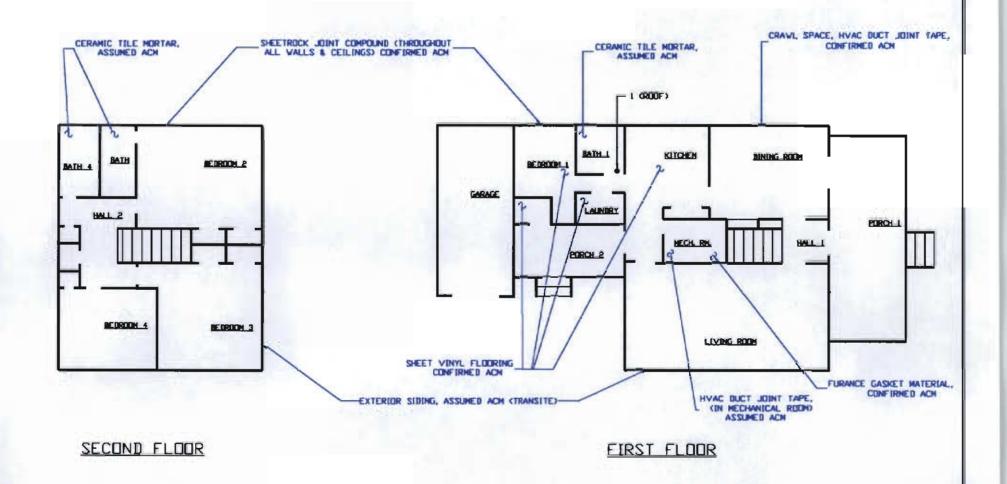
ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, SQ = Ft. = square feet

## ASBESTOS SURVEY BUILDING SUMMARY TABLE

# CHARLESTON NAVAL COMPLEX HOUSING

1350 AVENUE H QUARTERS J J PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
ASSUMED	A	CERAMIC TILE MORTAR, all bathrooms	375 Sq. Ft.	8	NO	G	0	O&M	
ASSUMED	А	DUCT JOINT TAPE, mech rm.	30 DUCT JOINTS,	8	NO	G	0	O&M	previously repaired / encapsulated
ASSUMED	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior materials
ASSUMED	A	EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft.	8	NO	G	0	O & M	



LEGEND

. - SAMPLE LUCATION

XX - TESTED POSITIVE FOR ASBESTOS

XX - NO ASBESTOS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor PLan (Type HD-23) 1350 AVE. "H" QUARTERS (JJ) Charleston Naval Base Charleston, SC

DWG DATE: 28 JAN 98 DWG NAME: ASB 1350

## CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-1	YES	DUCT JOINT	APPROX. 35	4	YES	SD	50	REMOVE	
1445-HOBSON-4	YES	TAPE, on hvac	DUCT JOINTS,				Ì	OR	
1445-HOBSON-5	YES	duct joints in	VARIOUS		} }			REPAIR	
1445-HOBSON-6	YES	crawl space	SIZES - 6in. to 24in.						
ASSUMED	A	DUCT JOINT TAPE, mech rm.	30 DUCT JOINTS,	8	NO	G	0	O & M	previously repaired / encapsulated
761-COMM-3	NO	SHEETROCK	APPROX.	6	YES, ONLY	G	< 1	REPAIR	damage in mech
761-COMM-7	NO	JOINT	5946 Sq. Ft.		WHERE				rm 1 sq. ft.
761-COMM-8	NO	COMPOUND,	1		DAMAGED			O & M	
775-COMM-4	NO	walls and							See General Note 1
775-COMM-8	YES	ceilings			'				
775-COMM-9	NO	throughout house							
801-COMM-4	NO								
1304-H-3	YES								
1304-H-4	YES								
1345-G-3	NO								
1351-G-2	NO					į	1		
1445-HOBSON-2	NO								
1445-HOBSON-3	NO			Ì					
1455-HOBSON-6	NO						İ		
1455-HOBSON-9	NO								
1455-HOBSON-10	NO								
761-COMM-1	NO	SHEET VINYL	250 Sq. Ft.	6	YES, ONLY	G	1	0 & M	
801-COMM-3	NO	FLOORING,	•		WHERE	<u>{</u>			
804-MARINE-3	NO	kitchen, bedroom			DAMAGED				
1293-G-1	YES	1, hall, closets,							
1345-G-4	NO	laundry							
1345-G-5	NO	-							
1445-HOBSON-9	NO								
1445-HOBSON-10	NO								
761-COMM-2	YES	SHEET VINYL	12 Sq. Ft.	8	NO	G	0	0 & M	
804-MARINE-4	YES	FLOORING,	-						
1305-G-1	YES	porch closet				[			

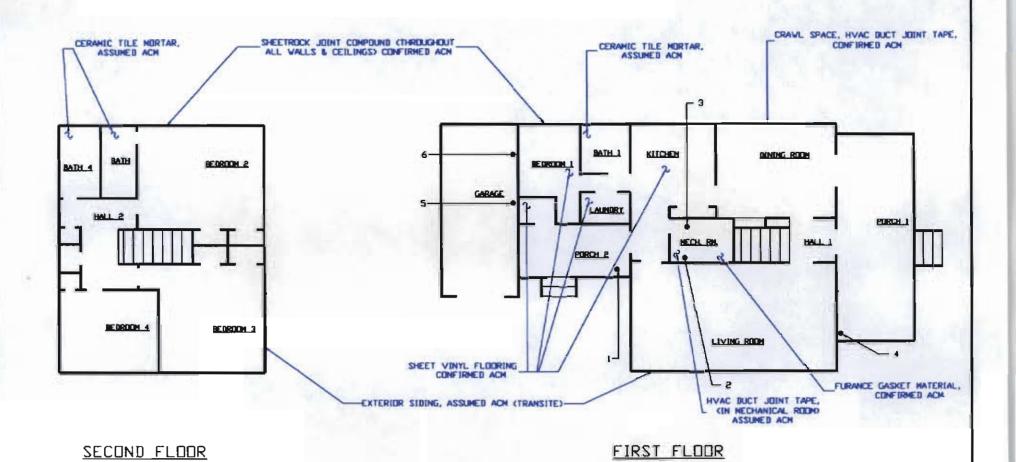
ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet

### ASBESTOS SURVEY BUILDING SUMMARY TABLE

## CHARLESTON NAVAL COMPLEX HOUSING

1351 AVENUE G QUARTERS L L PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1305-G-2	YES	FURNACE, gasket material	*	*	*	*	*	O & M	* See General Note 3
ASSUMED	A	CERAMIC TILE MORTAR, all bathrooms	375 Sq. Ft.	8	NO	G	0	O&M	
ASSUMED	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior materials
ASSUMED	A	EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft.	8	NO	G	0	O & M	



#### LEGEND

• - SAMPLE LUCATION

XX - TESTED POSITIVE FOR ASSESTOS

XX - NO ASBESTOS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor PLan (Type HD-23) 1351 AVE. "G" QUARTERS (LL) Charleston Naval Base Charleston, SC

DWG DATE: 28 JAN 98 DWG NAME: ASB 1351

### ASBESTOS SURVEY BUILDING SUMMARY TABLE

# CHARLESTON NAVAL COMPLEX HOUSING

1445 HOBSON AVENUE QUARTERS X PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-1 1445-HOBSON-4 1445-HOBSON-5 1445-HOBSON-6	YES YES YES YES	DUCT JOINT TAPE, on hvac duct joints in crawl space	APPROX. 35 DUCT JOINTS, VARIOUS SIZES - 6in. to 24in.	4	YES	SD	50	REMOVE OR REPAIR	
761-COMM-3 761-COMM-7 761-COMM-8 775-COMM-4 775-COMM-9 801-COMM-4 1304-H-3 1304-H-4 1345-G-3 1351-G-2 1445-HOBSON-2 1445-HOBSON-3 1455-HOBSON-6 1455-HOBSON-9 1455-HOBSON-10	NO NO NO YES NO YES NO NO YES NO NO NO NO NO NO	SHEETROCK JOINT COMPOUND, walls and ceilings throughout house	APPROX. 5946 Sq. Ft.	6	YES, ONLY WHERE DAMAGED	G	< 1	REPAIR O & M	damage in mech rm 1 sq. ft.     approx. 2 sq. ft. flaking or peeling paint / wall covering in various rooms  See General Note 1
761-COMM-1 801-COMM-3 804-MARINE-3 1293-G-1 1345-G-4 1345-G-5 1445-HOBSON-9 1445-HOBSON-10	NO NO YES NO NO NO	SHEET VINYL FLOORING, bedroom I, porch 2 closet	100 Sq. Ft.	8	YES only where damaged	G	1	REPAIR O & M	damage in porch 2 closet and bedroom 1
1445-HOBSON-11 1445-HOBSON-22	N Y	SHEET VINYL FLOORING kitchen, hall, laundry, closets	108 Sq. Ft.	8	0	G	0	O & M	

continued on next page

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet

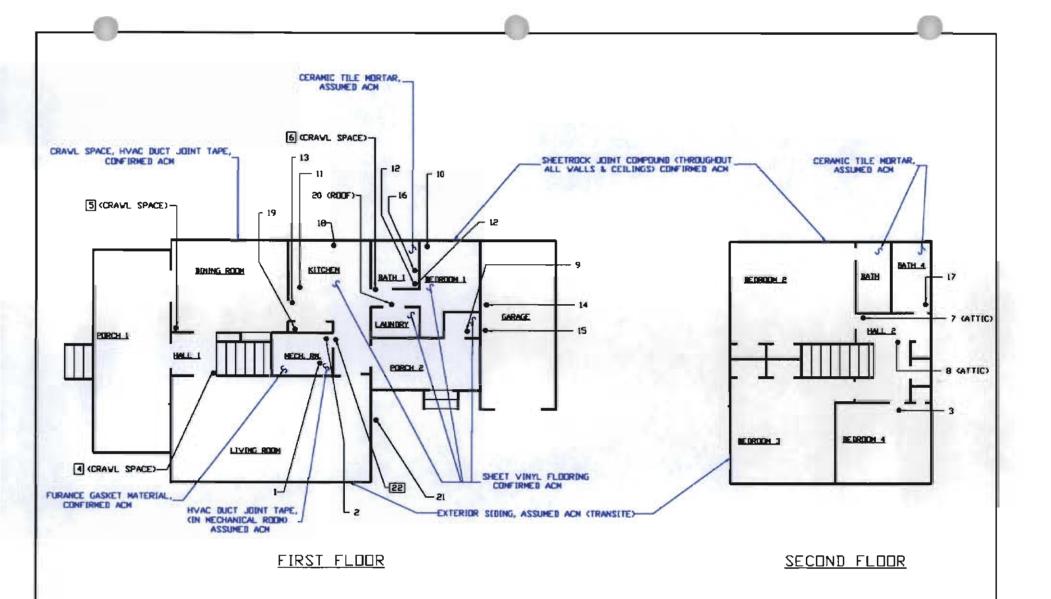
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### ASBESTOS SURVEY BUILDING SUMMARY TABLE

## CHARLESTON NAVAL COMPLEX HOUSING

1445 HOBSON AVENUE QUARTERS X PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1305-G-2	YES	FURNACE, gasket material	*	*	*	*	*	O&M	* See General Note 3
ASSUMED	A	CERAMIC TILE MORTAR, all bathrooms	375 Sq. Ft.	8	NO	GOOD	0	O&M	
ASSUMED	A	DUCT JOINT TAPE, mech rm.	30 DUCT JOINTS,	8	NO	GOOD	0	O & M	previously repaired / encapsulated
ASSUMED	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior materials
ASSUMED	A	EXTERIOR SIDING WITHIN PORCHES	289 Sq. Ft.	8	NO	GOOD	0	O & M	



LEGEND

. - SAMPLE LOCATION

XX - TESTED POSITIVE FOR ASBESTOS

XX - NO ASBESTOS DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor PLan (Type HD-23)
1445 HOBSON AVE. QUARTERS (X)
Charleston Naval Base
Charleston, SC

DWG BATE: 28 JAN 98 DWG NAME: ASB 1445

# CHARLESTON NAVAL COMPLEX HOUSING

1455 HOBSON AVENUE QUARTERS W PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-1 1445-HOBSON-4 1445-HOBSON-5 1445-HOBSON-6	YES YES YES YES	DUCT JOINT TAPE, on hvac duct joints in crawl space	APPROX. 35 DUCT JOINTS, VARIOUS SIZES - 6in. to 24in.	4	YES	SD	50	REMOVE OR REPAIR	
761-COMM-3 761-COMM-7 761-COMM-8 775-COMM-4 775-COMM-9 801-COMM-4 1304-H-3 1304-H-4 1345-G-3 1351-G-2 1445-HOBSON-2 1455-HOBSON-6 1455-HOBSON-9 1455-HOBSON-10	NO NO NO YES NO NO YES NO NO NO NO NO NO NO NO	SHEETROCK JOINT COMPOUND, walls and ceilings throughout house	APPROX. 5946 SQ. FT.	6	YES, ONLY WHERE DAMAGED	G	< 1	REPAIR O & M	damage in mech rm 1 sq. ft. damage in upstairs bedroom closets 1 sq. ft. approx. 2 sq. ft. flaking or peeling paint / wall covering in various rooms  SEE GENERAL NOTE # 1
761-COMM-1 801-COMM-3 804-MARINE-3 1293-G-1 1345-G-4 1345-G-5 1445-HOBSON-9 1445-HOBSON-10	NO NO NO YES NO NO NO	SHEET VINYL FLOORING, bedroom 1, porch 2 closet	100 SQ. FT.	6	YES only where damaged	G	1	REPAIR O & M	damage in porch 2 closet and bedroom 1
1305-G-2	YES	FURNACE, gasket material	*	*	*	*	*	0 & M	* see general note # 3
ASSUMED	A	CERAMIC TILE MORTAR, all bathrooms	375 SQ. FT.	8	NO	G	0	O & M	

continued on next page

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet

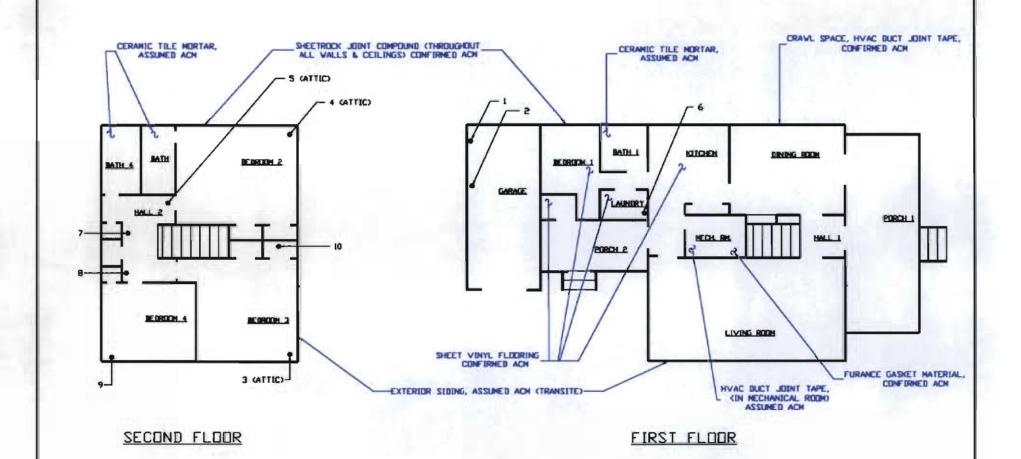
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### ASBESTOS SURVEY BUILDING SUMMARY TABLE

## CHARLESTON NAVAL COMPLEX HOUSING

1455 HOBSON AVENUE QUARTERS W PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
ASSUMED	A	DUCT JOINT TAPE, mech rm.	30 DUCT JOINTS,	8	NO	G	0	O & M	previously repaired / encapsulated
ASSUMED	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior materials
NONE	A	EXTERIOR SIDING WITHIN PORCHES	289 SQ. FT.	8	NO	G	0	O & M	



LEGEND

. - SAMPLE LOCATION

XX - YESTED POSITIVE FOR ASBESTOS

XX - NO ASSESTES DETECTED

SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor PLan (Type HD-23)
1455 HOBSON AVE. QUARTERS (W)
Charleston Naval Base
Charleston, SC

DWG DATE: 27 JAN 98 DWG NAME: ASB 1455

### ASBESTOS SURVEY BUILDING SUMMARY TABLE

### CHARLESTON NAVAL COMPLEX HOUSING

1575 HOBSON AVENUE QUARTERS D PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1288-H-1 1445-HOBSON-4	YES YES	DUCT JOINT TAPE, on hvac	APPROX. 35 DUCT JOINTS,	4	YES	SD	50	REMOVE OR	- The basis of the second of t
1445-HOBSON-5	YES	duct joints in	VARIOUS					REPAIR	
1445-HOBSON-6	YES	crawl space	SIZES - 6in. to					KEFAIK	
1113 11000011 0	LES	ciawi space	24in.						,
761-COMM-3	NO	SHEETROCK	APPROX.	6	YES, ONLY	G	1	REPAIR	damage in mech
761-COMM-7	NO	JOINT	5946 SQ. FT.		WHERE				rm 3 sq. ft.
761-COMM-8	NO	COMPOUND,	-		DAMAGED			0 & M	• approx. 50 sq. ft.
775-COMM-4	NO	walls and							flaking or peeling
775-COMM-8	YES	ceilings							paint / wall
775-COMM-9	NO	throughout house							covering in
801-COMM-4	NO								various rooms
1304-H-3	YES								
1304-H-4	YES	į							SEE GENERAL
1345-G-3	NO								NOTE # 1
1351-G-2	NO				:				
1445-HOBSON-2	NO								
1445-HOBSON-3	NO								
1455-HOBSON-6	NO								
1455-HOBSON-9	NO								
1455-HOBSON-10	NO								
761-COMM-1	NO	SHEET VINYL	250 SQ. FT.	8	NO	G	0	O&M	
801 <b>-</b> COMM-3	NO	FLOORING,							
804-MARINE-3	NO	kitchen, bedroom							
1293-G-1	YES	1, hall, closets,							
1345-G-4	NO	laundry							
1345-G-5	NO								
1445-HOBSON-9	NO								
1445-HOBSON-10	NO								
761-COMM-2	YES	SHEET VINYL	12 SQ. FT.	8	NO	G	0	O&M	
804-MARINE-4	YES	FLOORING,							
1305-G-1	YES	porch closet					<u> </u>		
1305-G-2	YES	FURNACE,	*	*	*	*	*	O&M	* see general note # 3
	! !	gasket material							

continued on next page

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet

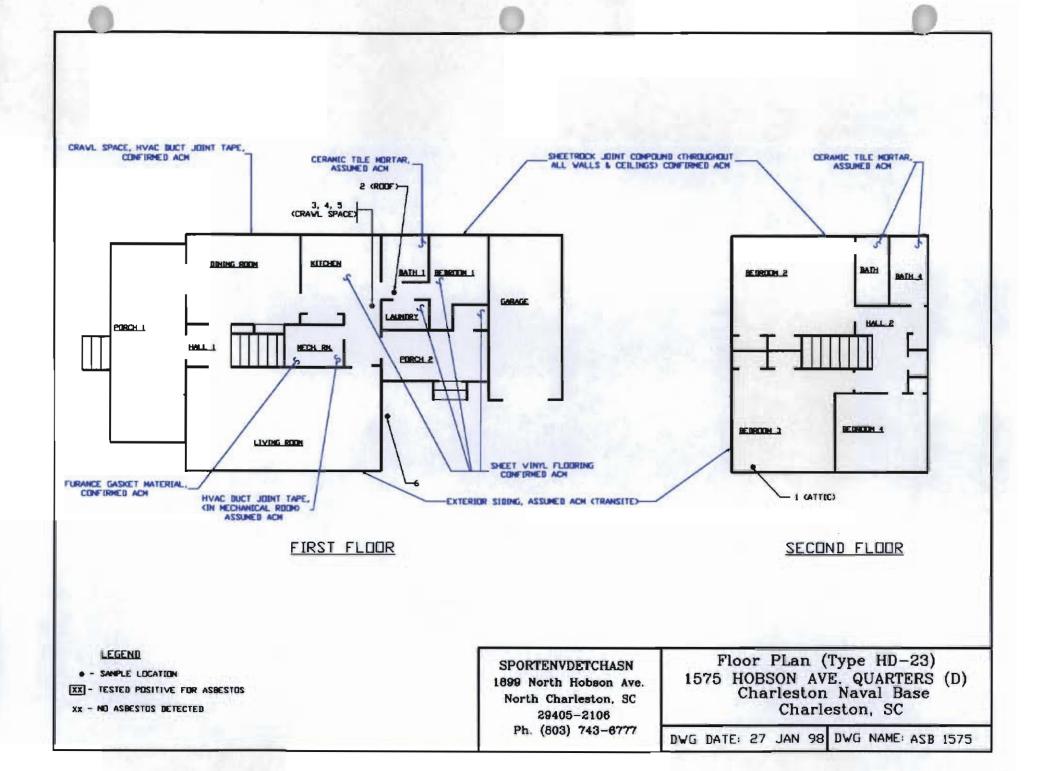
continued from previous page

### ASBESTOS SURVEY BUILDING SUMMARY TABLE

## CHARLESTON NAVAL COMPLEX HOUSING

1575 HOBSON AVENUE QUARTERS D PLAN HD-23

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
ASSUMED	A	CERAMIC TILE MORTAR, all bathrooms	375 SQ. FT.	8	NO	GOOD	0	O&M	
ASSUMED	A	DUCT JOINT TAPE, mech rm.	30 DUCT JOINTS,	8	NO	GOOD	0	O & M	previously repaired / encapsulated
ASSUMED	A	EXTERIOR SIDING, TRANSITE	*	*	*	*	*	*	* assessment not required on exterior materials
ASSUMED	A	EXTERIOR SIDING WITHIN PORCHES	289 <b>SQ</b> . FT.	8	NO	GOOD	0	O&M	



1899 North Hobson Avenue

#### North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

		ENSED INSPECTOR(S).	MISSARY / Date:	4/16/97
INSPECTOR _	Royce Char	DHEC LICENSE NO. 21680	EXPIRATION DATE	8/21/97
INSPECTOR		DHEC LICENSE NO.	EXPIRATION DATE	
NOTIFY OF RES	SULTS. NAI	ME Royce Charpia PHONE NO. 743-6482 E	Ext. 230	
Relinquished to	Rimmy J	1. Ant Date 4-17-97		
Relinquished by	ROYCE CI	HARP!A Date 4-17-97		
Logged in by		Date		
(1	IDENTIFICAT	ION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	ID DISPERSION STAINING)	
Sample No.	OSH No.	Location/Description	Asbestos Type (or None)	Analyst Initials
761 COMM -1		FLOYER / FLOOR COVERING	NONE	w
761 COMM -2		FLOYER / FLOOR COVERING - 2ND LAYER	CHRYSOTILE	NA
761 COMM -3		IST FLR BEDROOM / SHEETROCK	NONE	M
761 COMM -4		2ND FLOOR BATHROOM / WALL COVERING	NONE	wor
Analyst(s)	Lan	Date 24-28-97		

Results Logged

Date

#### 1899 North Hobson Avenue

	Eng. & Remediation Detachment ( LICENSED INSPECTOR(S)	Building 761 Co	<u>Date</u>	6/4/91
INSPECTOR JAM	PES LEWIS DHECLICE	NSE NO 2/656	_ EXPIRATION DATE	8/20/4
INSPECTOR BR		NSE NO 2/687		1 / 1
NOTIFY OF RESULT	S. NAME Rose State	PHONE NO 743-6482 Ex	1230/39	,
Relinquished to				
Relinquished by	Date	15/16		
Logged in by	Date	<del></del>		
(IDENT	IFICATION IS DETERMINED BY POLARIZ	ED LIGHT MICROSCOPY AND	DISPERSION ST AINING)	<del></del>
Sample OSH No No.	Location/Descr	nption	Asbestos Type (or None)	Anaiyst Intuais
nel comm 5	WALL BOARD UNPER		HONE	Tinto
6	1	LING ROOM  AROOM	NOME	W
) 7	SHEETRAK/PUTTY/ TAPE  CLOSET	T IN KITCHEN	NONE	WT
8	V BEORM	B 4 CEOSET	NONE	With
g	WALL COVERING- WHITE ROUGH FINISH	OVER DOOR TO	NONE	Ma
10		BEO RM F 3	NONE	M
Analyst(s)  Analyst(s)	0000 6-6-	?>		
Results Logged	Date			

1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

From. (Project) <b>E</b> SAMPLES TAKE	<b>nvir. Eng. &amp;</b> EN BY LICE	Remediation Detach	ment Building	775 COM	MISSARY Date:	4/16/97
INSPECTOR R	oyce Charp	ia DHI	EC LICENSE NO	21680	EXPIRATION DATE	8/21/97
INSPECTOR		DHI	C LICENSE NO.	- <u></u>	EXPIRATION DATE	
		ΛΕ Royce Charpia			ext. 230	
Relinquished to	Eminy o	1 Amile Date	4-17	97		
//	~/	IARPIA Date				
Logged in by		Date	e			
(I	DENTIFICATI	ON IS DETERMINED BY	POLARIZED LIGHT	MICROSCOPY AN	D DISPERSION STAINING)	
Sample No	OSH No.	Loc	ation/Description		Asbestos Type (or None)	Analyst Initials
775 COMM -1		GARAGE / SHEET	ROCK		NONE	Wa
775 COMM -2		GARAGE / SHEET	ROCK			WAZ
775 COMM -3		KITCHEN / WALI	COVERING		NONG	MZ
775 COMM -4		1ST FLOOR STAIL	RS / SHEET ROC	ĸ	NONE	WOL
						:

Date 4-29-97

Date

Date

Analyst(s)

Analyst(s)

Results Logged

1899 North Hobson Avenue

			g. & Remediation		Building _	27500	Date:	6/4/97
			ICENSED INSPEC	,				eur de A
	INSPECTOR	JAMES	5 LESUIS	_ DHEC LIC	ense no 🕰	1686	EXPIRATION DATE	3/2/41
	INSPECTOR	BRUC	E MURRAT	DHEC LIC	ENSE NO 2		EXPIRATION DATE	8/20/77
	NOTIFY OF	RESULTS: 1	NAME Rovce Ch	CE MAGGI	PHONE NO	743-6482 Ext	230 234	
	Relinquished			Date		<del></del>		
	Relinquished	by Sum	1. Cm	Date	6/5/97			
	Logged in by			Date				
		(IDENTIFIC	CATION IS DETERMI	NED BY POLAR	IZED LIGHT MIC	ROSCOPY AND	DISPERSION STAINING)	
	Sample No	OSH No.		Location/Des	scription		Asbestos Type (or None)	Analyst Initials
(5-1)	COMM		FIRE PROUF	SHEMMINIC	- IN EAR	AGE	NONE	nste
	-3-		WALLBOARD	UNDER C	CHAIR RA	12		
(1· cim	6		1~ L11	ING ROL	em!		NONE	MT
vB-1)	0		WALLBOAR				NONE	M
SR-1)	8		SHEET ROCE COUSET U	PUTTY	ITAPE		CHRYSOTILE	NO
5R - 1)	q		SHEET REAL	c/PUTTY	/ TAPE	ra P.M	NONE	11A
. /			WALL COVE	RING in	VHITE RU	UGH FIMSH	1.01	
wc-1	10		BEDRM # 3		BACK BACK	51DE \$	CHRYSOTILE	W
uc-1)	11		BEDRM "	2	ATT BASILS	5106 ~ <b>~</b>	CHRYSOTILE	- wtc
				*				
		. (	)	( 0	_			
	Analysus)	W	aussate _	5-6-9,	7			
	Analyst(s)		Date _					
	Results Logge		Date					

1899 North Hobson Avenue

From. (Project	Envir. Eng.	& Remediation Detachment ENSED INSPECTOR(S):	Building 775 COM	MISSARY Date	e: 4/16/97
		pia DHEC LICE	NSE NO. 21680	EYPIDATION DAT	E 9/21/07
		DHEC LICE			E
		ME Royce Charpia		Ext 230	
Relinquished to	Stering 5	1- 1 Date 4	-17-97		
Relinquished by	ROYCE CH	HARPIA Date 4-17	-97		
Logged in by _		Date			
	(IDENTIFICAT	ION IS DETERMINED BY POLARIZ	ED LIGHT MICROSCOPY A	ND DISPERSION STAINING)	
Sample No.	OSH No.	Location/Des	scription	Asbestos Type (or None)	Analyst Initials
801 COMM -1		KITCHEN/ WALL COVER	RING HILL (WPI)	NONE	WAC
801 COMM -2		LIVING ROOM / WALL B		NONE	MAC
801 COMM -3		FOYER / FLOOR COVER	$(V \neq I)$	NONE	WAC
801 COMM -4		2ND BED ROOM / SHEET	ROCK (SRI)	NONE	war
801 COMM -5		2ND FLOOR BATH / WAL		NONE NONE	Wol
801 COMM -6		GARAGE / SHEET ROCK	$\left( \mathbf{S}_{1}\right)$	NONE	WA
		/ L/Bate 4-29-97	,		
nalyst(s)	7) Ca	Date			
esults Logged	· <del></del>	Date			

#### 1899 North Hobson Avenue

	ir. Eng. & Remediation Detachment Building 301 Co	Omni Date	6/4/97
INSPECTOR JAM	DES LEWIS DHECLICENSE NO 21686	EXPIRATION DATE	8/20/90
INSPECTOR	BRUIL MUEMY DHECLICENSE NO 21687	EXPIRATION DATE	8/20/97
NOTIFY OF RESUL	DHEC LICENSE NO 21687  DHEC LICENSE NO 21687  THINES LEWIS  PHONE NO 743-6482 Ext	230-139	
Relinquished to 1	j. E. 11ay Date 6/5/97		
Relinquished by	Date 6/5/97		
Logged in by	Date		
/IDE:	NTIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AND	DISPERSION STAINING)	
Sample OS: No No	Location/Description	Asbestos Type (or None)	Analyst Initials
BOI COMM	WALL COUERING WHITE RUNGH FINISH  2 ND FLOUR TOP STAIRS	NONE	un
	The state of the s		
		-	
Anaiyst(s)	Lau (Date 66-9)		
Analyst(s)	Date		
Results Logged	Date		

#### 1899 North Hobson Avenue

	Fig. & Remediation Detachment Building 804 / Particle See INSPECTOR(S)	MARWE Date	4/18/97
INSPECTOR ROAD	CHARP THECLICENSE NO 21680	EXPIRATION DATE	8/21/97
INSPECTOR <u>FR</u>	ULL MORAY DHEC LICENSE NO. 2168	> EXPIRATION DATE	8/20/92
NOTIFY OF RESULT	IS NAME ROVCE Charpis PHONE NO 743-648:	2 Ext. 230	7
Relinquished to	ing & Anuth Date 4-21-97	-	
Relinquished by			
Logged in by	Date		
(IDEN	TIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY	AND DISPERSION STAINING)	
Sample OSH No No	Location/Description	Asbestos Type (or None)	Analyst Initials
80:1-MARINE -1	STAIR TREAD ADHESINE	MONE	Notes.
30447AM.WZ -2	STAIR TREAD ADMESIVÉ	NONE	1
80+MARINE -3	KITCHEN / LAUNDRY	1000	
etin- marine 4	PERCH CLOSE T VINAL FLOOR	CH2/30-16	AZ
		, , , , , , , , , , , , , , , , , , , ,	
Analyst(s)	Carparé 1-30-97		
Analyst(s)	Date		
Results Logged	Date		

### 1899 North Hobson Avenue 106

North Charleston, South Carolina 29405-2100
ASBESTOS IDENTIFICATION

	r. Eng. & Remediation Detachment BY LICENSED INSPECTOR(S)	Building <u>807 Co.4</u>	Date:	4//5/4/
INSPECTOR <u>Rota</u>	CHARPIA DHEC LICEN	SE NO. ≥ 16 PO	EXPIRATION DATE	8/21/9
INSPECTOR &	EXE MURICAY DHECLICENS	SENO 2/637	EXPIRATION DATE	
NOTIFY OF RESUL	TS. NAME ROVE Charpia PE	HONE NO <u>743-6482 Ext</u>	. 230	
Relinquished to	my J- truth Date 4	-171-47		
//	Que Munay Date 4/	/ / '		
Logged in by	Date			
<del></del>	TIFICATION IS DETERMINED BY POLARIZED	D LIGHT MICROSCOPY AND	DISPERSION STAINING)	
Sample OSI No No	Location/Descrip	otion	Asbestos Type (or None)	Analyst Initials
8=7-cem	BATHARIM #1 (CAULK (CI)		N.C. V.E	011
801-com -	BATTACON # 3 CAUCK (C)		NONE NONE NONE	014
809-COM	Rie-HNOUM 713		7,07,2	-0.0-
-3A -	Be-HARL (UP)	)	NONE	Idd.
			9	
Analyst(s)  Analyst(s)  Results Logged	1. 1. Date 4/39/97  Date  Date			

#### 1899 North Hobson Avenue

From (Project) Envir. Eng SAMPLES TAKEN BY LIC	. & Remediation Detachment Building 809 Co.4	MISARY Date	6/4/97
		EXPIRATION DATE	8/21/97
INSPECTOR Bene	AME ROVER CHARDIA PHONE NO 743-6482 E.	EXPIRATION DATE	8/20/97
NOTIFY OF RESULTS N	AME ROVCE Charola PHONE NO 743-6482 Ex	kt. <del>230-</del> Z 3 4	, ,
Relinquished to we	May Date 4/5/97		
Relinquished by	1/4 Date 6/5-/97		
Logged in by	Date		
	ATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN		
Sample OSH No No	Location/Description	Asbestos Type (or None)	Analyst   Initials
809 -com	MALL BOAZD (BÉLON CHAIR RAIL)  BINING ROOM (WBI)  WALL ROARD (BÉLON CHAIR RAIL)	NONE	M
- coM	LIVING ROCM (WBI)	NONE	ue-
	<u> </u>		
Analyst(s) Analyst(s) Results Logged	Date Date		

#### 1899 North Hobson Avenue

	The state of the second state of the second state of the second s	Date:	4/17/97
INSPECTOR Rose	E CHARDIA DHEC LICENSE NO 21680	EXPIRATION DATE	8/21/97
INSPECTOR	BRUCE MUERT DHECLICENSE NO 2/617	EXPIRATION DATE	8/10/99
NOTIFY OF RESULT	IS NAME Royce Charpia PHONE NO 743-6482 E	Ext 230	,
Relinquished to			
Relinquished by	Luce / Curron Date 4/17/97		
Logged in by	Date		
(IDEN	TIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY A	ND DISPERSION STAINING)	<del></del>
Sample OSH No No	Location/Description	Asbestos Type (or None)	Analyst Initials
1288-G	GARACE INTERIOR  SHEATTHING (SI)  BATHROOM #1	NEWE	NOT
1285-6	BATHROOM #1  CAUCK (CI)  RAMACOM #11	NONE	1,07
-3	KITCHEN, CAULK (CI)	NONG	WZ_
1285-G -4	BATHMOOM #4 CAULK	NONE	1117
Analyst(s)	Inuxbate 4-30-97		
Analyst(s)	Date		
Results Logged	Date		

### ENVIRONMENTAL ENGINEERING AND REMEDIATION

ID:803-743-0246

#### DETACHMENT CHARLESTON

1899 North Hobson Avenue

SPECTOR ROLL HORANA: DHEC LICENSE NO. 21680 EXPIRATION IN SPECTOR BRUCK MURRAY DHEC LICENSE NO. 27687 EXPIRATION IN DIFFERENCE CHAPPE PHONE NO. 743-6482 Ext. 230 7/13. Chinquished to Sathur D. Bailer Date 4/22/97  Chinquished by Line Dlury Date 4/22/97  Great Date Date  Control of the Difference Chappe Date April Date April Date Date Date Date Date Date Date Date	•
inquished to Sathy D. Bailer Date 4/22/97  Inquished by Sun Diction Date 4/22/97  Date	- 111
	<u>NG</u> )
Sample OSH Location/Description Asbestos Type No No (or None)	c Analyst Initials
1288 H-1 DUET JOINT TAPE (DITT) Chrystile	
288 Kricher Brown Closet Mo appeared 97-213 Dre7 Joni TARE detected	Q. SMR
•	

#### 1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

From: (Project) <b>Envir. Eng.</b> ( SAMPLES TAKEN BY LICE	& Remediation Detachment Building 1288 Au ENSED INSPECTOR(S)	enuc H Date	1-16 98
	MURRAY DHECLICENSE NO 2168?	EXPIRATION DATE	: P-20-91
	DHEC LICENSE NO		
	ME Brue Monary PHONE NO ExT.	234	
Relinquished to W.E.	May Date 1/16/98  Date 1-16-98		
Relinquished by <u>Kull</u>	12y Date 1-16-98		
Logged in by	Date		
(IDENTIFICAT	ION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY A	ND DISPERSION STAINING)	
Sample OSH No No	Location/Description	Asbestos Type (or None)	Analyst Initials
1288 H E	XYERIN WINBOW GLAZING	NONe	avem
		<del></del>	_
		<del> </del>	<del>                                     </del>
	-		
•			
nalyst(s) <u>W</u> .E <u>Mau</u>	Date 1/1/1/00		
nalyst(s)	•		
•	Date		

1899 North Hobson Avenue

	ng. & Remediation Detachment Building 1293 A	UE G Date	4/17/9
INSPECTOR ROYCE	CHARPIA DHECLICENSE NO 21680	EXPIRATION DATE _	8/21/07
			/ .
NOTIFY OF RESULTS	NAME ROUGE Charmia PHONE NO 743-6482 E	xt. 230	/
Relinquished to	1 Amb Date 4/17/97		
Relinquished by Sun!	/ / · · ·		
Logged in by	Date		
(IDENTIFIE	CATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)	
Sample OSH No No	Location/Description	Asbestos Type (or None)	Analyst Initials
1293-6-1	PORCH CLOSET VINIL FLORENG	CHRYDOTILE	M
1293-6-2	CAUCK, BATHNOOM # (	NONE	not
1293:6-3	(CI)	NONE	nte
1293-6-4 -	(WPI) KITCHEN	NUNG	INZ
1293-6-5	(UPI) RATHARM /	NONE	nec
1273-6-6 _	GALACE INTELLOR 5 FATHING (MINNED) 51	NONE	WR
	C i		
Analyst(s)	Cewford 4-29-97		
Analyst(s)	Date		
Results Logged	Date		

1899 North Hobson Avenue

From (Project SAMPLES TA	t) <b>Envir. En</b> AKEN BY LI	g. & Remediati	on Detachment Building <u>/ 2 タム</u> ECTOR(S)	Date	4/18/57
INSPECTOR	JAMES	Lewis	DHEC LICENSE NO 2/686	EXPIRATION DATE	8/21/97
!NSPECTOR		<u> </u>	DHEC LICENSE NO	EXPIRATION DATE	
NOTIFY OF F	RESULTS N	NAME Rovee	DHEC LICENSE NO  2- IN - P.R. * - 1  Charge PHONE NO 743-648:	2 Ext 230	
Relinquished t	· Lemin	1 kmit	Date 4-2/-97		
Relinquished	ov Jornes	Luni	Date 4-21-97		
Logged in by 3	1		Date		
	(IDENTIFIC	ATION IS DETER	MINED BY POLARIZED LIGHT MICROSCOPY	AND DISPERSION STAINING)	
Sample No	OSH No		Location/Description	Asbestos Type (or None)	Analyst Initials
1294 -1		BELON CI	ART UPSTAN BEDPLON NUZZ HANK RAIL	N°N ←	WAC
129 - 17		WALLEN	EBATH 4 BELL CHAIR PA	NONE	MZ
	-				
Analyst(s)  Analyst(s)  Results Logged		Date Date	U-309)		

1899 North Hobson Avenue

		S LLW13		ISE NO 21686	E:	XPIRATION DATE	8/20/0
		E MURRAY		ISE NO 2/69			
NOTIFY OF I	RESULTS	NAMERovce Chardi	j 14m 25 2 <u>a</u> P	HONE NO 743-6482	2 Ext. 236	<u> 1139</u>	,
Relinquished t	10 NU S	171ay 1	)ate <u>6/</u>	5-/97			
Relinquished l	by Sin	Min	Date	1/95			
Logged in by			Date	<u> </u>			
	(IDENTIFIC	CATION IS DETERMINED	BY POLARIZE	D LIGHT MICROSCOPY	AND DISE	PERSION STAINING)	<del></del>
Sample No	OSH No	Lo	ocation/Descri	риоп		Asbestos Type (or None)	Anaivst Initials
1304	_	CHAIR RAIL	UNDER	WWW. ROO.	ות	NONE	W
2				MASTEN BEDRM		NONE	ur
2		SHEET RECEPTION	Y/-API-	V Cus	CI Year	+12/5cT1c6	noz
4		J		BATI-	CI	+RYSOTIL	GUM?
5		ROYEN FINISH		perrorm =	_ \~	ONE	WT
6		-		BED ROOM #	1	JON E	up
		Δ					
Analvst(s)		Stry Bate 6-	<u>6-97</u>	>			
Analyst(s)		Date					
Results Logger	d.	Date					

1899 North Hobson Avenue

From (Project SAMPLES TA	t) <b>Envir. Eng. &amp; Re</b> AKEN BY LICENSE	emediation Detachmen ED INSPECTOR(S).	Building 130	S AVE G	Date <u>477-97</u>
INSPECTOR	ROYCE CH	ARPIA DHECLI	CENSE NO 216	YO EXPIRATIO	N DATE 3/21/9"7
INSPECTOR	JAMES (E	wis DHECLI	CENSE NO 2/6	86 EXPIRATIO	NDATE P/co/91
NOTIFY OF I	RESULTS. NAME	Royce Charpia	PHONE NO 743-6	5482 Ext <del>. 230 -</del> / 3 9	, ,
		Date			
		vi Date L		- <del>-</del>	
Logged in by	<i></i>	Date		_	
<del></del>	(IDENTIFICATION )	S DETERMINED BY POL.V	RIZED LIGHT MICROSCO	OPY AND DISPERSION STA	JNING)
Sampie No	OSH No	Location/De		Asbestos 7	
1305 AVE - (	Pol	RCH = 2	142	CITTZYSI	STICE WAL
-2	MEC	4 ROOM FUR	ANCE GASKET ERIAL	CHRYST	OTILE WAL
Analyst(s)	Ham	Date 4-28-	9)		
Analyst(s)		Date			
Results Logged		Date			

#### 1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

From (Prosect	· Venuis Eng. 8: E	Remediation Detachment Building 13/0	Aud H Data	4/18/22	
SAMPLES TA	KEN BY LICENS	SED INSPECTOR(S)	JAURE 11 Date.		
INSPECTOR	R CHARA	DHEC LICENSE NO 2/680	EXPIRATION DATE	8/21/97	
INSPECTOR	JAMES (	(€ W/S DHEC LICENSE NO 2/686	EXPIRATION DATE 8/20/97		
NOTIFY OF F	RESULTS, NAME	BRUCE MURRA 7 ROYCE CHAPPIA PHONE NO 743-648	2 Ext. 230	,	
Relinquished t	· Jening J.	Date 4-2/-97  Date 4-2/-97			
Relinquished	y Lenos Law	Date 4-2/-97			
Logged in by	9 	Date			
[ <del></del>	(IDENTIFICATION	N IS DETERMINED BY POLARIZED LIGHT MICROSCOPY	AND DISPERSION STAINING)	<del></del>	
Sample No	OSH No	Location/Description	Asbestos Type (or None)	Analyst Initials	
13/6-H-1		ruten Hi floor	NONG	inte	
13/U·H·Z	1 1	ITC FLOOR	NONE	Me	
1					
Analyst(s)	Laur	1 Date 4-30-97			
Analyst(s)	1	Date			
Results Logge	- d	Date			

1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 **ASBESTOS IDENTIFICATION** 

From (Project) Envir. E	Eng. & Remediation Detachment Building 1310	Ave 11 Date	: 4/22/97
	CHARITA DHECTICENSE NO 2/680		. /
1	• 1		71/
INSPECTOR BRUG	E MURRAY DHECLICENSE NO. 2/6 97	EXPIRATION DATI	E 1/10/97
	NAME HOW Charpia PHONE NO 743-6482	Ext. 230 743-	9413
Relinguished to Nat	My Baile Date 4/22/9,7  Date 4/22/97	FAX	
Reinquished by	Date 4/22/97		
Logged in by			
(IDENTIF	ICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY	AND DISPERSION STAINING)	
Sample OSH No No	Location/Description	Asbestos Type (or None)	Analyst
13104-3	CEAML SPACE, SUSULATION	No gobertos	KINR
97-210	MATERIAL (LYING ON GROWN)	detrifico.	
1310-44	ROOF, SHINGLE  (RED ROOF, OLD)	No ashertos	BMR
97-211	(RED ROOF, OLD)	detection _	BIL
		<del></del>	<del>   </del>
ļ			
unalvst(s) <u>FDD</u> Le	Date	oyce Charpia 4-2	2 <b>\$</b> -97 <b>q</b> FAXa
Results Logged	Date		

#### 1899 North Hobson Avenue North Charleston, South Carolina 29405-2106

### ASBESTOS IDENTIFICATION

INSPECTOR BRUCE MURRAY DHEC LICENSE NO Z1687  INSPECTOR DHEC LICENSE NO DHEC LICENSE NO EXT.	EXPIRATION DATE	
NOTIFY OF RESULTS NAME BRUCE MURRA PHONE NO EXT.	EXPIRATION DATE	
NOTIFY OF RESULTS NAME BRUCE MURRA PHONE NO EXT.	724	
	_< 3 ~/	
Relinquished to W.E. May Date 1/16/98		
Relinquished to Wi E. May Date 1/16/98  Relinquished by Bu Du Date 1-16-98		
Logged in by Date		
(IDENTIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AND	DISPERSION STAINING)	· · · · · · · · · · · · · · · · · · ·
Sample OSH Location/Description	Asbestos Type (or None)	Analyst Initials
1310-H-3 5 SHEET VINIC FLOOZING - MULTIACE LAYERS WIMASTIC		
13,00 april 2001	CHRYSOTILE	WEM
1310 HY 6 ExTERIOR WINDER	CHRYSOTILE NONE	WEM
	7 7	

1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

	Eng. & Remediation Detachment Building 131: As	JE 6 Date	4-11-97
INSPECTOR POUC	E CHARPIA DHECLICENSE NO 21690	EXPIRATION DATE	5/21/917
INSPECTOR R	JIM LEWIS 2/687	EXPIRATION DATE	8/20/97
NOTIFY OF RESULTS	NAME Rouse Charola PHONE NO 743-6482 E	Ext. <del>230 -</del> 13 9	5/10/C)
Relinquished to Jumin	y & Ant Date 4-17-97		
Relinquished by from	us Lewic Date 4-111-9-7		
Logged in by	Date		
(IDENTI	FIGATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY A	ND DISPERSION STAINING	
Sample OSH No No	Location/Description	Asbestos Type (or None)	Analyst Initials
1311 AVE -1	FLOOR COVER IN CLOSET ON PORCH	CHRYSOTIL	stw
-2	FLOOR COVER IN KITCHEN SAMPLE TAKEN AT DOOR GOING TO FRONT PORCH	NONE	wa
-3	MALL PARER IN BATH IN MASTER BEDRUM (LIGHT FIXTURE)	NONE	M
- 4	DULT INSUL IN MELH ROOM	NTNE	ns
-5	CLOSET DOOR ACROSS FROM BATH	NONE	M
Analyst(s)  Analyst(s)  Results Logged	Date		

#### 1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

		ng. & Remediation Detachment Building / S LICENSED INSPECTOR(S)	RII AUENUE G Date	1-15-98
INSPECTOR_	BRUCE	MURRAY DHECLICENSE NO 21	EXPIRATION DATE	8-20-9
INSPECTOR _		DHEC LICENSE NO		
NOTIFY OF R	ESULTS:	NAME BRUCE MURRY PHONE NO	ext 234	
Relinquished to	W. E	. May Date 1/16/98	<del></del>	
Relinquished by	bu l	Date 1/16/98  Date 1-16.98		
Logged in by		Date		
<del></del>		CATION IS DETERMINED BY POLARIZED LIGHT MICRO		<del></del>
Sample No.	OSH No.	Location/Description	Asbestos Type (or None)	Analyst Initials
1311-6-6		Location/Description  SHEET WINGL FLOORING, KITC  MULTIPLE LAYERS BERTO  EXTERIOR WINGEOU  SIAZING	mable CHUSOTILE	WEM
13:11-G-7		EXTERIOR WINGOW  COAZING	NoNe	wem
		•		
	-			
Analyst(s) <u>(()</u> ,	E M	au Date 1/16/98		
Analyst(s)		Date		
Results Logged		Date		

1899 North Hobson Avenue

From (Project) SAMPLES TA	Envir. En KEN BY L	g. & Remediation I	Detachment TOR(S)	Building	1345 1	avE"G"	_Date_	4/14/97
INSPECTOR	Romanie L	Charpia	DHEC LICE	NSE NO _	21680	EXPIRATION	DATE S	5/21/57
INSPECTOR	*							
NOTIFY OF R	ESULTS 1	NAME Rovce Cha	гріа	PHONE NO	743-6482 Ex	t 230		
Relinquished to	Juning	1 Anuth	Date	-16-	97_			
Relinquished by	v	Vargia	Date 4/	16/47	·			
		<i>y</i>						
	(IDENT[FIC	CATION IS DETERMIN	ED BY POLARIZ	ED LIGHT MI	CROSCOPY ANI	DISPERSION STAIN	VING)_	<del></del>
Sample No	OSH No		Location/Descr	aption		Asbestos Ty (or None)	•	Analyst Initials
13-5 AV 2 G		WALL BOA		GARAGE		None	<del></del>	M
1345 AVU		PARTICULAR				202	6	'ND2
1345 AVS		SPECT ROO				NON	$\leftarrow$	NAC_
1345 AVE		FLEER CLUE, LAUNDRY				NOA	16	MAZ
1345 AVE 'C" 5		FLOOR COUS	RIVE IN	BEPROS	<i>m</i> /	Norsa		NOT
Analyst(s)		Own Date 5	1-29-9					
Analyst(s)	,	Date						
Results Longed		Date						

#### 1899 North Hobson Avenue

EXPIRATION DATE EXPIRATION DATE	
EXPIRATION DATE	
<u></u>	
ranchelov at vivinia	
	Analyst
(or None)	Initials
1/0.4/-	wem
Nove	wern
<u> </u>	<del></del>
	1
	Asbestos Type (or None)

#### 1899 North Hobson Avenue

From: (Project) Envir. Eng. & SAMPLES TAKEN BY LICE	Remediation Detachment Building NSED INSPECTOR(S).	1350 Au	Date.	4/18/97
INSPECTOR R. CHARA	014 DHEC LICENSE NO	21680	EXPIRATION DATE	8/21/97
INSPECTOR JAMES	1687	EXPIRATION DATE	8/20/97	
NOTIFY OF RESULTS. NAM	DHEC LICENSE NO 2  BRITCH M. P.RA.  TE ROVCE Charpia PHONE NO	743-6482 Ext.	230	·
Relinquished by Jones Le.	Date 4-21-97			
Logged in by	Date			
(IDENTIFICATIO	ON IS DETERMINED BY POLARIZED LIGHT MIC	ROSCOPY AND	DISPERSION STAINING)	
Sample OSH No No	Location/Description		Asbestos Type (or None)	Analyst Initials
1350·H-1 /K	COF, SHINGLE		NONE	LA
		-		
	•			
Analyst(s)	( Date 4-30-9)			
Analyst(s)	Date			
Results Logged	Date			

#### 1899 North Hobson Avenue

Form (D) (N)		AVE G Date:	14.10
	ir. Eng. & Remediation Detachment By LICENSED INSPECTOR(S)  Building 1351	Date:	4-1619
inspector $\mathcal{R}_{c}$	42 Charges DHECLICENSE NO 21680	EXPIRATION DATE	8/2/17
INSPECTOR	•	EXPIRATION DATE	
NOTIFY OF RESU	LTS NAME Rovce Charpia PHONE NO 743-6482 I	Ext 230	
Relinquished to L	mmy 1 Am Date 4-16-97		
Relinquished by	Charpia Date 4-16 97		
Logged in by	/ Date		
(IDE	NTIFICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY A	ND DISPERSION STAINING)	
Sample OS No No	Description Calpet	Asbestos Type (or None)	Analyst Initials
1351 AVE	MASTIC FOR OUTDOR CARPET PERCH NO. 2	NONE	1.14
1351 AUS 2	ROOM ROOM TAPE MUD IN MECH	NONE	1/1/2
1351 AVE 16" 3	DULT TAFE IN MELH ROLM	NONE	MAZ
1351 AUE	CARPET + MASTIC PORCH 1	NON (-	WAZ
135   AUE	PARTICLE BLARD IN GARAGE	pon C	With
1351 AVE	COLD BOND FIRE PROOF BOARD	NONE	W
		-	
Analyst(s)  Analyst(s)  Results Logged	(211 Pate 4-29-9) Date		

1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

SAMPLES TAKE	nvir. Eng. & Remediation I	TOR(S).	Date:	
INSPECTOR	C. CHARFIA	DHEC LICENSE NO 2/680	EXPIRATION DATE	3/21/97
INSPECTOR			EXPIRATION DATE	
NOTIFY OF RES	ULTS NAME Rovce Char	PHONE NO 743-6482 Ex	tt. 230	
Relinquished to Relinquished by	Simmy J. Smith	Date <u>4/9/97</u>		
Reinquished by	Ku Ally	Date -/4/9>		
Logged in by		Date		
(	DENTIFICATION IS DETERMIN	ED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)	<del></del>
11 1	OSH No	Location/Description	Asbestos Type (or None)	Analyst Initials
144T HOSSON-!	TSI	200M VENTICATION	NONE	111
1445 110850.U-Z	MACHINERY	Room WAIL	NONE	11.8
HU6'50 V-3	20d fcoo.e -	BENZOOM 4 LIGHT SWITCH	NOME	USA
HOR SEL	Lieur : Argue	FRICT TOLORP	0	
HUEST	11			
14 4 1				
1				
Analyst(s) Analyst(s) Results Logged	Date	110/97		

#### 1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

		g. & Remediation De ICENSED INSPECTO	tachment Build	ling <u>1445</u>	HDBSON I	Date: 4/10/97
INSPECTOR	R. CH	ARP)A	DHEC LICENSE N	10 21680	_ EXPIRATION D.	ATE <u>8/2//9/</u>
INSPECTOR			DHEC LICENSE N	io	_ EXPIRATION D	ATE
NOTIFY OF	RESULTS: 1	NAMERovee Charni	TIM LEWIS PHON	E NO. <u>743-6482 E</u>	ct 230	
Relinquished	10 Jiming	1 Anth 1	Date	197		
Relinquished	бу <u>Дол, л.</u>	afeni)	Date <u>4/10/9</u>	7		
Logged in by			Date			
	(IDENTIFIC	CATION IS DETERMINED	BY POLARIZED LIG	HT MICROSCOPY AN	D DISPERSION STAININ	(G)
Sample No	OSH No	Lo	ocation/Description		Asbestos Type (or None)	Analyst Initials
1445 HOBSON+	_	DUCT HUSUL JOINT	AFIBLE FROM - TAPE		CHRYSOTIL	E 21.8.
1645 HOBSON- 5					CHRYSOTILE CHRYSOTILE	1. J. A.
1445 HOBSUV-					CHRYSOT, LA	€ J.J.
1445 H0850~-		INSULATION	FROM ATTI	C	NONE	J. S.
1445 HOBSON-			<u>/</u>		NONE	J.J. A.
		•				
Analyst(s)		<u> </u>	'O <u>-</u> 97			
Analyst(s)		Date	<b>,</b>			
Results Logge	:d	Date				

1899 North Hobson Avenue

From: (Project) Envir.	Eng. & Remediation Detachment Building 1445 (LICENSED INSPECTOR(S).	HORSON Date:	4/15/97
	CHARAL DHEC LICENSE NO. 21680	EXPIRATION DATE	3/21/97
INSPECTOR	DHEÇ LICENSE NO		,
NOTIFY OF RESULTS	S. NAME ROYCE CHAPPIA PHONE NO. 743-6482 Ex	<del>-</del> at 230	
	1. Amth Date 4-15-97		
	2 Levi- Date 4/15/97		
Logged in by	Date		
(IDENTI	FICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)	<del></del>
Sample OSH No No.	Location/Description	Asbestos Type (or None)	Analyst Initials
1445 - 9 -	CLOSET OFF PARCH VINIL FLOORING	NONE	WAZ
1445 Horson -14	BEDRE M #1, VINIC FLOORING	NONE	iva
1445 HCRSCN-11	KITEHEN' V'NHL FLECKING	NONE	NAZ
16445 HONOW-12	BATTMELM WALLPAPER (BEHIND HEATING VENT)	NONE	NAC
1445 110834N-13	KITCHEN WALLPAPER (BEHIND LICHT SWILL PLATE)	NON (-	way
1445 HCKS6 V-14	SHEATHING (FIREPROCE) FROM GARAGE INTERIOR - GOLDBOND BRAND	NONE	ntc
HOPSEN-15	SHEATHING (FIREPACOF) FROM CARAGE ZUTERION (NON-COLDEOND)	NONE	NAC
1445 14683612-16	BATHACIM #/	NONE	MC
Analyst(s)  Analyst(s)  Results Logged	Date  Date  Date		

#### 1899 North Hobson Avenue

From. (Project) I SAMPLES TAK	Envir. Eng. EN BY LIC	& Remediation Do	OR(S)	Building	1445	Horzian Date	4/15-/9
				ENSE NO	51680	EXPIRATION DATE	E 3/2./97
INSPECTOR _						EXPIRATION DATE	
NOTIFY OF RE	SULTS NA	ME Royce Charp	lukeay	PHONE N	O 743-6482 E	kt. 230	
Relinquished to	Eiming )	1 bouth	Date	4-1.5-	97		
Relinquished by	Janes	Leve	Date 4	115/9	2		
Logged in by	<i>7</i>		Date	•			
	IDENTIFICA	TION IS DETERMINE	BY POLARI	ZED LIGHT N	IICROSCOPY AN	D DISPERSION STAINING)	
Sample No	OSH No	L	ocation/Des	cription		Asbestos Type (or None)	Analyst Initials
1445 Hegsow-17		BATTMOUM	# 4			NONE	WR
			•				
	* *************************************						
		<del></del>					
		$\bigcirc$		_			
	/			<del></del> -			
<i>(</i> -			- 0 -				,
Analyst(s)		importe y-	<u> </u>				
malyst(s)		Date					
Results Logget		Date					

### ENVIRONMENTAL ENGINEERING AND REMEDIATION

#### DETACHMENT CHARLESTON

1899 North Hobson Avenue

		g. & Remediation Detachmen	Building 144	ts HOBSON	Daile.
		CENSED INSPECTOR(S): HARPIA DHECLI		· ·	26/6
INSPECTO	·	Bace Mucany	CENSE NO.	EXPIRATION	DATE
		IAME Rovee Charpia			
Relinquished	to <u>Kath</u>	4D. Baile Dec 4	122/97	<del>-</del>	
Relinquished	by Sun A	Date	4/22/97	_	
Logged in by		Date	7	_	~
		ATION IS DETERMINED BY POLA	RIZED LIGHT MICROSCOI	– PY AND DISPERSION STAIN	ING)
Sample	OSH	Location/De	remaion.	Asbestos Typ	e Analyst
No.	No:		•	(or None)	[nitials:
1445 1445 - 18		KITCHEN / VINYL	FWOR (VF5)	Mone de	tala Aff
1445 16830W-14		DUCT JOHN TO	.05€ T 4PE	Man Dat	1 AN 444
1441 - 19 140830W - 19 20		DUCT JOHT TO ROOF STINGLE, GREEN ROOF (C	se)	They lot	+1114
					THE STATE OF THE S
			<del></del>		
ľ					
 			·	1	ì

#### 1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

From: (Project) Envir. En SAMPLES TAKEN BY I	ng. & Remediation Detachment Building 144 LICENSED INSPECTOR(S)	45 HOBSON AVE Date: 1-15-98
INSPECTOR BRUCE	MUCRAY DHECLICENSE NO 2/68	EXPIRATION DATE 8 20-93
	DHEC LICENSE NO	
NOTIFY OF RESULTS	NAME BRUCE MURRAY PHONENO C	ext. 234
Relinguished to /// d	Page 1/16/98	
Relinquished by	Date 1-16-98	
Logged in by	Date	
(IDENTIFI	CATION IS DETERMINED BY POLARIZED LIGHT MICROSC	OPY AND DISPERSION STAINING)
Sample OSH No No.	Location/Description	Asbestos Type Analyst (or None) Initials
14-15	EXPERIOR WINDOW OLAZING	(or rone) industs
-HOBSON -21		None wem
1445 1445	SHEET WINHL FLOORING KITCHEN, MULTIPLE LAYERS Beign TILL	CHOISOTILE QUEN
-32	Beige Tike	CHRISOTILE QUEN
<b> </b>		
	•	,
	, 	
		<u></u>
Analyst(s) In 1.8 m	ny Date 1/16/98	
Analyst(s) W. & Mo	Date 277.6776	
Results Logged	Date	

1899 North Hobson Avenue

SAMPLES TAKEN BY	ing. & Remediation Detachme LICENSED INSPECTOR(S)			140,3501		<i>'</i> ' ,
INSPECTOR R	HARPIA DHECI	LICENSE NO	7/680	EXPIRATION I	DATE _	8/21/97
INSPECTOR	DHEC I					
NOTIFY OF RESULTS	. NAME Rovce Charpia		•	230		
Relinquished to	A	4/9/97	<del>,</del>			
Relinquished by //		4/9/97				
Logged in by	Date					
(IDENTI)	FICATION IS DETERMINED BY POL	ARIZED LIGHT MICE	ROSCOPY AND	DISPERSION STAIN	ING)	
Sample OSH No No	Location/	Description		Asbestos Typ (or None)	e	Analyst Initials
1455 HOBSON-1	SHEATHING ON WALLS (INTE SHEATHING ON G	(ARACE		NONE		2 J.S.
1455 HORSON-2	SHEATHING ON G WACLS (INTERIO	ARAGE R GOLABON	s BRANIS)	NONE		P.S.
Analyst(s) fraing J	1 Date 4/10/	97				
Analysi(s)	Date					
Results Logged	Date					

1899 North Hobson Avenue

	Eng. & Remediation V LICENSED INSPE		455 HO.430N Date	<u>+/1 &lt; /9</u> 7
INSPECTOR A	CHARPIA	_ DHEC LICENSE NO _ >/6	(8C) EXPIRATION DATE	8/1/97
INSPECTOR		DHEC LICENSE NO		
	IS NAME <del>Rovee Ch</del>			
Relinquished to	ing I Cont	5 Date 4/10/97	<u></u>	
Relinquished by	ruce Il Tura	Date 4/10/97		
Logged in by	Y	Date		
(IDEN	TIFICATION IS DETERMI	NED BY POLARIZED LIGHT MICROS	COPY AND DISPERSION STAINING	
Sample OSH No No	I	Location/Description	Asbestos Type (or None)	Analyst Initials
1455 HeBSOW-3	ATTIC Z	NSCC1710N	NONE	1.1 A.
1455 HESSON-4	ATTIC IN	SULATION	NONE	111
1455 HOBSONS	,ATTIC 3	LSCW Krio. V	Norne	1.1.1.
	-			
		<u> </u>		
Analyst(s)	South Date	4/10/97		
Analyst(s)	Date	<del></del>		
Results Logged	Date			

1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

		ing. & Remediation Detachment Building 1455 LICENSED INSPECTOR(S)	1680N Date: 4/15/9	77
INSPECTOR	R. CH	DHEC LICENSE NO 2/68	O EXPIRATION DATE 3/4/	4)
INSPECTOR		DHEC LICENSE NO	EXPIRATION DATE	
NOTIFY OF E	RESULTS	NAME ROVE Charms PHONE NO. 743-64	82 Ext. 230	
		my & Smith Date 4-16-97		
Relinguished/	y James	elevir Date 4/16/97		
Logged in by		Date		
		ICATION IS DETERMINED BY POLARIZED LIGHT MICROSCOP	Y_AND DISPERSION STAINING)	
Sample No	OSH No.	Location/Description	Asbestos Type Anal (or None) Initi	*. II
1455 HERSUN-C		MECH NO. M SHERTROCK MUD & TAPE	NONE W	M
1455 Hibson-7	_	HALLWAY AT TOP OF STAIRS	NONE WA	4
145, HCRX V. E	~	HALLIAT, TOP OF STAIRS ON CHAIR RAIL	NONEM	
HORSO 1-7	-	BEDROSM # 4 SHETROIK MUB	Wore w	77
1455 HCK(011-10	_	BEDROOM-73 SHEETROCK	NONEM	N
		,		
Analyst(s)		Cupple 4-28-97  Date		
esuits Logged		Date		

1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

From (Project) Envir. Eng. & Remediation Detachment Bldg. 1575 Hobson Date: 4/30/97 SAMPLES TAKEN BY LICENSED INSPECTOR(S):

INSPECTOR James Lewis DHEC LICENSE NO. 21686 EXPIRATION DATE 8/20/97

INSPECTOR	DHEC LICENSE NO	_EXPIRATION DATE	<u> </u>	
NOTIFY OF RES	ULTS: NAME James Lewis PHONE NO	743-2821 ext 139		
Relinquished to _	James Lewi	Date 5-/-97	_	
Relinquished by_	James Luni	Date 5/1/47	<u> </u>	
Logged in by		Date	<u> </u>	
11)	DENTIFICATION IS DETERMINED BY POLARIZE	D LIGHT MICROSCOPY AND D	ISPERSION STAINING)	
Sample No. (	OSH Location/Description.		Asbestos Type (or None)	Analyst Initials
1575 Hobson-1	Attic (Gray Insulation)		NONG	war
1575 Hobson-2	Roof Material (Green Shingle)		NONE	utc
Analyst(s)	Date 5-1-9	7		

Analyst(s)

Analyst(s)Date

**Results Logged Date** 

#### 1899 North Hobson Avenue

From. (Project) Envir. En SAMPLES TAKEN BY L	g. & Remediation	Detachment E	Building 1575	HOBSON AVE Date:	6/20/97
INSPECTOR BRUCE	_		SE NO 21687	EXPIRATION DATE	8/21/97
INSPECTOR		DHEC LICENS	SE NO	_ EXPIRATION DATE	
NOTIFY OF RESULTS.	NAME Royce C	CE MUREAY PH	IONE NO 743-6482 Ex	a. <del>230</del> 2 3 /	
Relinquished to Ligar	y J- Josh	Date <u></u>	23-97		
Relinquished by	112	Date	<u> 13-77</u>		
Logged in by		Date			
(IDENTIFIC	CATION IS DETERM	INED BY POLARIZED	LIGHT MICROSCOPY AN	D DISPERSION STAINING)	
Sample OSH No No		Location/Descrip	tion	Asbestos Type (or None)	Analyst Initials
1575 1+08500	CRAWL SP	•			
-3	LOOSE PIE	US OF SHE	SETROCK	NONE	A J. S.
1575 HORSON -4				NONE	1.1.1
1575 16850:J				NONE	111
				74074.	7 0. 7.
	•				
			<del> </del>		
				<u> </u>	
Analysis) frage 2	Date (	6-24-97			
Analyst(s)	Date				
Results Logged	Date				

#### 1899 North Hobson Avenue

		g. & Remediation ICENSED INSPE		Bmmung	13 /)	1708100	AUE Date:	7-76 7-
INSPECTOR	Bene 1	MURRAY	_ DHEC LIC	ENSE NO	21687	EXPIR	RATION DATE	\$ 20-19
INSPECTOR			_ DHEC LIC	ENSE NO		EXPIR	LATION DATE	
NOTIFY OF I	RESULTS. 1	NAME BRUCE	MURRAY	_PHONE N	0 Ext	284		
Relinquished t	0 W. E	may	_ Date _//	16/98				
Relinquished l	y Lu	& May	_ Date/	1-16-9	78			
Logged in by			Date					
·		ATION IS DETERMI				AND DISPERSI	ON STAINING)	
Sample No	OSH No.		Location/Des	cription		I	estos Type or None)	Analyst Initials
1575 HERSON - 6		EXTRRIOR	WINDOW	6'CAZI	N 6-	No	Ne	WEM
			· <u>-</u>			740	<u> </u>	10011
		_		<u> </u>				
		· · · · · · · · · · · · · · · · · · ·						
		····			<u></u>	<u> </u>		
				<del></del>				
		•						<del> </del>
							<del></del>	
			· · · · · · · · · · · · · · · · · · ·					<u> </u>
Analyst(s)	o. E. M	ay Date /	/16/98					
\nalyst(s)		J	·					
Results Logged		Date						

### ASBESTOS SURVEY TYPE "J" HOUSING CHARLESTON NAVAL COMPLEX CHARLESTON, S.C.

#### 1. DESCRIPTION:

The fourteen units listed below are built to the "J" type floor plan style. The 2J units are 1202 square feet and have two bedrooms. The 3J units are 1269 square feet and have 3 bedrooms. The 4J units are 1653 square feet and have 4 bedrooms. All units are duplexes, combined as listed below. Each unit is built on a concrete slab with brick veneer exterior and asphalt shingled roof. Year of construction is 1963. All units are similar in construction and have materials that are homogeneous to all "J" type units. See individual Building Summary Tables for information on each unit. Also, many of the materials in these houses are of the same homogeneous group as materials in the "S" type houses.

Building No.	<u>Address</u>	<u>Plan Type</u>
769	1303 / 1309 Avenue H	3Ј
777	1344 / 1352 Avenue G	3J
743	1409 / 1415 Manley Ave.	2J
744	1410 / 1414 Manley Ave.	4Ј
746	1420 / 1424 Manley Ave.	3J
745	1421 / 1425 Manley Ave.	3J
747	1431 / 1435 Manley Ave.	2Ј

#### 2. FINDINGS:

Eight homogenous materials were identified as suspect Asbestos Containing Material (ACM). Of the 8 homogeneous materials, 3 were confirmed to contain asbestos, 2 were assumed to contain asbestos, and 3 are asbestos free.

#### **CONFIRMED ACM**

- SHEETROCK JOINT COMPOUND, walls and ceilings throughout all houses, see General Note 1
- CEMENTITIOUS PIPE (clothes dryer vent piping), Present in all "J" houses, except 1410 and 1414 Manley.
- 3. SHEET VINYL FLOORING and MASTIC, in all kitchens and dinette areas.

#### ASSUMED ACM

- 1. FLOOR TILE and MASTIC, 12" x 12", in all rooms except bathrooms and kitchens.
- 2. CERAMIC TILE MORTAR, all bathrooms

#### ASBESTOS FREE

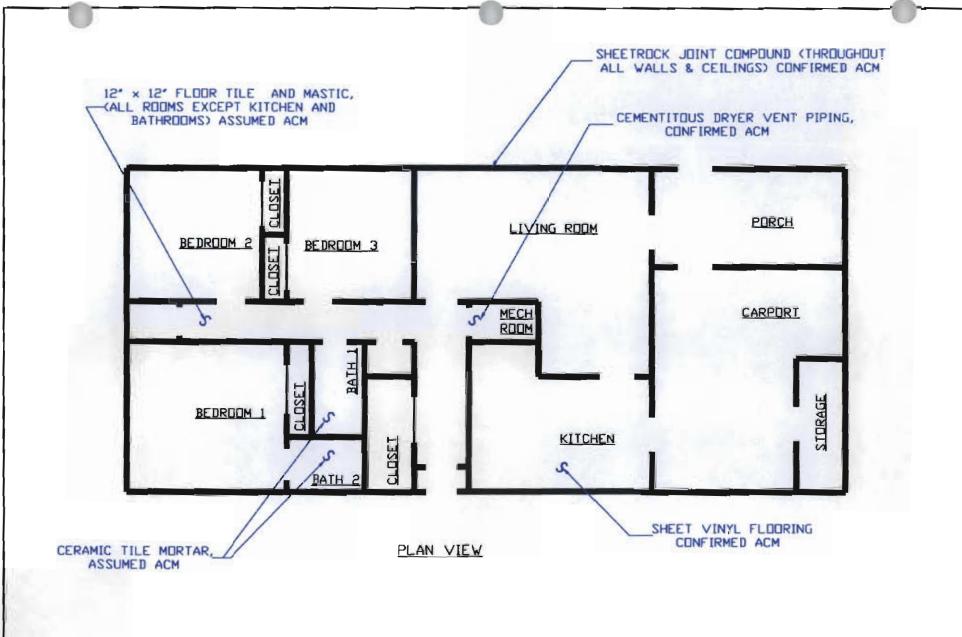
- 1. ATTIC INSULATION
- 2. CAULKING/PUTTY
- 3. BASEBOARD MASTIC, all rooms except bathrooms

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-2	N	MISC.	3500 sq. ft.	8	N	G	0	O&M	See Gen. Note 1
1409-MANLEY-5	N	SHEETROCK	•						
1409-MANLEY-9	N	JOINT					į.		
1409-MANLEY-10	N	COMPOUND,							
1409-MANLEY-11	N	walls and					ļ		
1409-MANLEY-12	Y	ceilings					! !		
1409-MANLEY-13	Y			A. C. C. C. C. C. C. C. C. C. C. C. C. C.					
1410-MANLEY-1	N						l		
1410-MANLEY-6	Y								
1410-MANLEY-11	N						•		
1410-MANLEY-12	N								
1410-MANLEY-13	N								
1410-MANLEY-14	N								
1410-MANLEY-15	Y								
1410-MANLEY-16	Y						ļ		
1410-MANLEY-17	Y						1		
1414-MANLEY-I	N								
1420-MANLEY-1	Y								
1420-MANLEY-2	N			*******					
1424-MANLEY-1	N			***	<u> </u>				
1424-MANLEY-2	N								
ASSUMED	Α	MISC. FLOOR	1000 sq. ft.	8	N	G	0	O&M	
		TILE and							
		MASTIC,							
		12" x 12", living							
		room, bedrooms							
		1, 2, and 3,							
		closets, mech.		-	•				
		room, hall							
1409-MANLEY-14	Y	MISC. SHEET	190 sq. ft.	8	N	G	0	O&M	
1409-MANLEY-15	Y	VINYL	_						
1410-MANLEY-4	Y	FLOORING and		-					
1410-MANLEY-5	Y	MASTIC,		***	-				
		kitchen		P. Carlotte					

### CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-4	Y	MISC. CEMENTITOUS PIPING, CLOTHES DRYER VENT, kitchen, mech. room	10 LF	8	N	G	0	O & M	
ASSUMED	A	CERAMIC TILE MORTAR, bathrooms	270 sq. ft.	8	N	G	0	O & M	



SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777

Floor Plan - Type (3J) 1303 AVENUE "H" Charleston Naval Base Charleston, SC

DWG DATE: 26 JAN 98 DWG NAME ASB 1303

### CHARLESTON NAVAL COMPLEX HOUSING

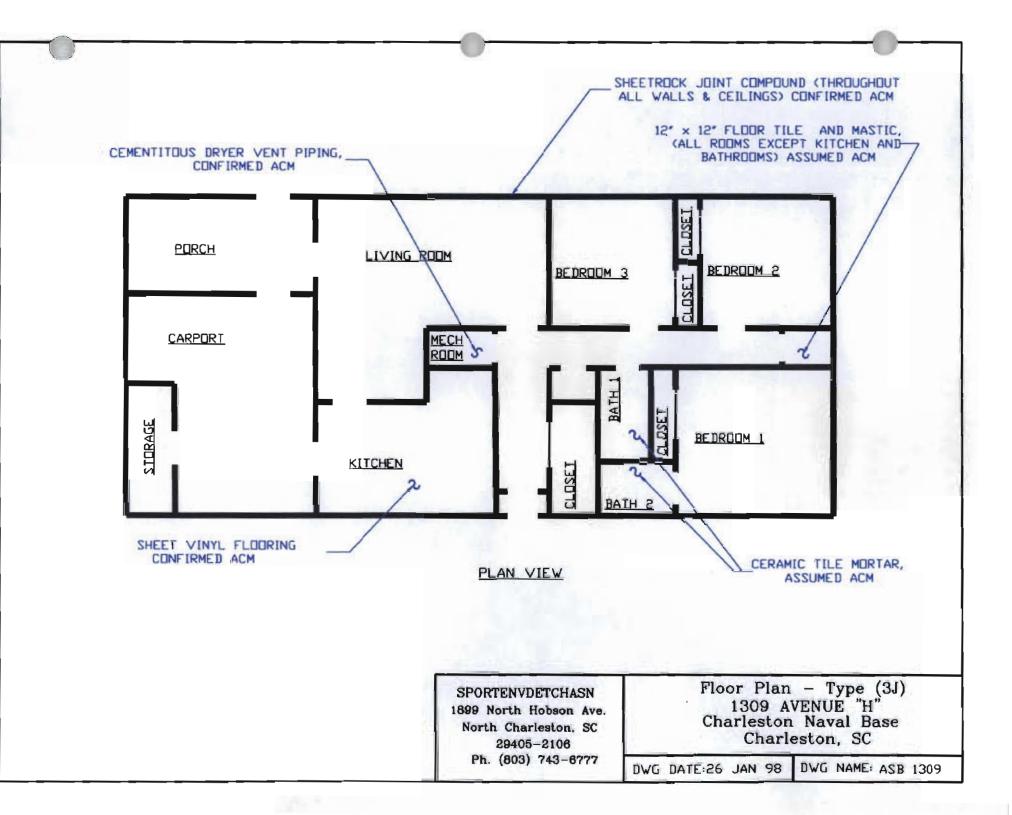
Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-2 1409-MANLEY-5 1409-MANLEY-9 1409-MANLEY-10 1409-MANLEY-11 1409-MANLEY-12 1409-MANLEY-13 1410-MANLEY-1 1410-MANLEY-6	N N N N Y Y	MISC. SHEETROCK JOINT COMPOUND, walls and ceilings	3500 sq. ft.	8	N	G	0	O&M	See Gen. note # 1
1410-MANLEY-11 1410-MANLEY-12 1410-MANLEY-13 1410-MANLEY-14 1410-MANLEY-15 1410-MANLEY-16 1410-MANLEY-17 1414-MANLEY-1 1420-MANLEY-1 1420-MANLEY-2 1424-MANLEY-1 1424-MANLEY-1	. N N N N Y Y N N N N N N N N N N N N N						The state of the s		
ASSUMED	A	MISC. FLOOR TILE and MASTIC, 12" x 12", living room, bedrooms 1, 2, and 3, closets, mech. room, hall	1000 sq. ft.	8	N	G	0	O & M	
1409-MANLEY-14 1409-MANLEY-15 1410-MANLEY-4 1410-MANLEY-5	Y Y Y Y	MISC. SHEET VINYL FLOORING and MASTIC, kitchen	190 sq. ft.	8	N	G	0	O & M	

### 1309 AVENUE H

### ASBESTOS SURVEY BUILDING SUMMARY TABLE

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-4	Y	MISC. CEMENTITOUS PIPING, CLOTHES DRYER VENT, kitchen, mech. room	10 LF	8	N	G	0	O&M	
ASSUMED	A	CERAMIC TILE MORTAR, bathrooms	270 sq. ft.	8	N	G	0	O & M	

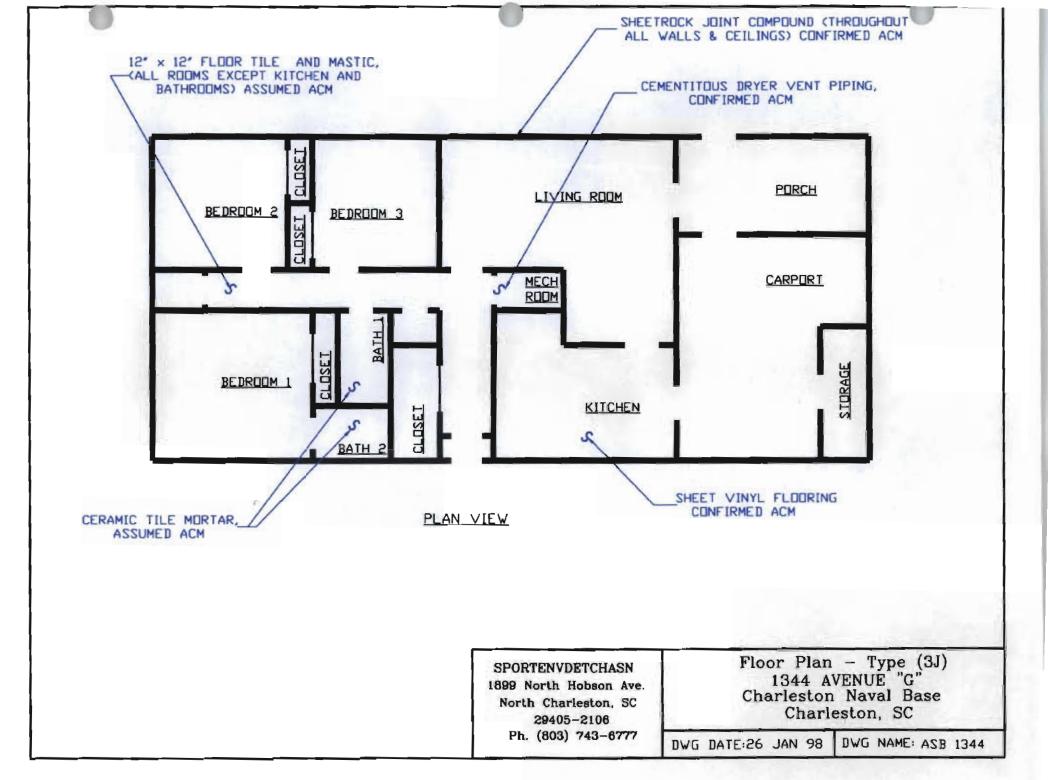


# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-2 1409-MANLEY-5 1409-MANLEY-9 1409-MANLEY-10 1409-MANLEY-11 1409-MANLEY-12 1409-MANLEY-13 1410-MANLEY-1 1410-MANLEY-1 1410-MANLEY-12 1410-MANLEY-12 1410-MANLEY-14 1410-MANLEY-15 1410-MANLEY-16 1410-MANLEY-16 1410-MANLEY-17 1414-MANLEY-1 1420-MANLEY-1 1420-MANLEY-1 1420-MANLEY-1 1420-MANLEY-2 1424-MANLEY-1	N N N Y Y Y N N N N Y Y Y N N N N N N Y Y N	MISC. SHEETROCK JOINT COMPOUND, walls and ceilings	3500 sq. ft.	8	N	G	0	O & M	See Gen. note # 1
ASSUMED	A	MISC. FLOOR TILE and MASTIC, 12" x 12", living room, bedrooms 1, 2, and 3, closets, mech. room, hall	1000 sq. ft.	8	N	G	0	O & M	
1409-MANLEY-14 1409-MANLEY-15 1410-MANLEY-4 1410-MANLEY-5	Y Y Y Y	MISC. SHEET VINYL FLOORING and MASTIC, kitchen	190 sq. ft.	8	N	G	0	O & M	

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-4	Y	MISC. CEMENTITOUS PIPING, CLOTHES DRYER VENT, kitchen, mech. room	10 LF	8	N	G	0	O&M	
ASSUMED	A	CERAMIC TILE MORTAR, bathrooms	270 sq. ft.	8	N	G	0	O&M	



# CHARLESTON NAVAL COMPLEX HOUSING

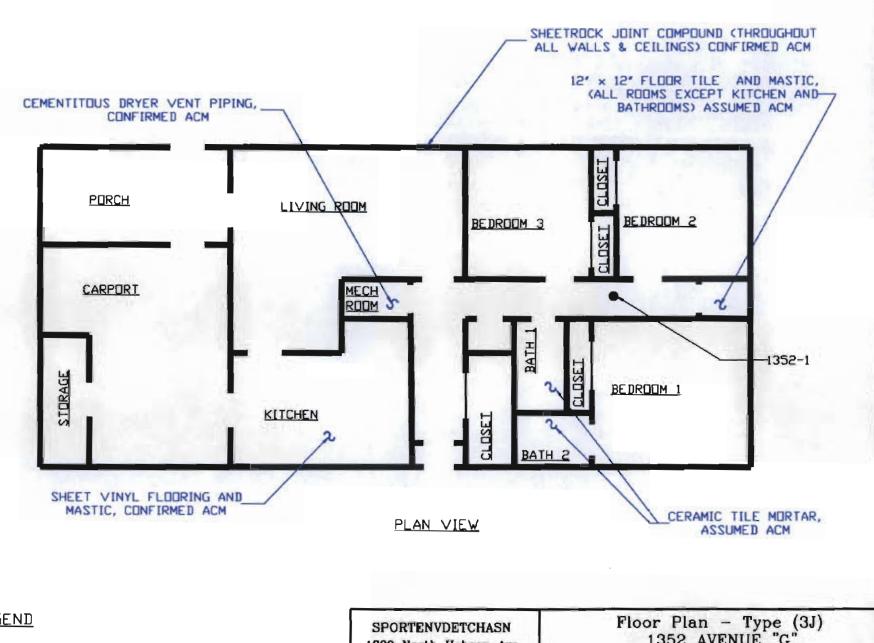
Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-2 1409-MANLEY-5 1409-MANLEY-9 1409-MANLEY-10 1409-MANLEY-11 1409-MANLEY-12 1409-MANLEY-13 1410-MANLEY-1 1410-MANLEY-1 1410-MANLEY-11 1410-MANLEY-12 1410-MANLEY-13 1410-MANLEY-15 1410-MANLEY-15 1410-MANLEY-16 1410-MANLEY-16 1410-MANLEY-17 1414-MANLEY-1 1414-MANLEY-1 1420-MANLEY-1 1420-MANLEY-1	N N N N N N N N N N N N N N N N N N N	MISC. SHEETROCK JOINT COMPOUND, walls and ceilings	3500 sq. ft.	8	N	G	0	O&M	See Gen. note # 1
ASSUMED	A	MISC. FLOOR TILE and MASTIC, 12" x 12", living room, bedrooms 1, 2, and 3, closets, mech. room, hall	1000 sg. ft.	8	N	G	0	O & M	
1409-MANLEY-14 1409-MANLEY-15 1410-MANLEY-4 1410-MANLEY-5	Y Y Y Y	MISC. SHEET VINYL FLOORING and MASTIC, kitchen	190 sq. ft.	8	N	G	0	O & M	

### 1352 AVENUE G

### ASBESTOS SURVEY BUILDING SUMMARY TABLE

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-4	Y	MISC. CEMENTITOUS PIPING. CLOTHES DRYER VENT, kitchen, mech. room	10 LF	8	N	G	0	O & M	
ASSUMED	A	CERAMIC TILE MORTAR, bathrooms	270 sq. ft.	8	N	G	0	O & M	



### LEGEND

- SAMPLE LOCATION

1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777

Floor Plan - Type (3J) 1352 AVENUE "G" Charleston Naval Base Charleston, SC

DWG DATE:26 JAN 98

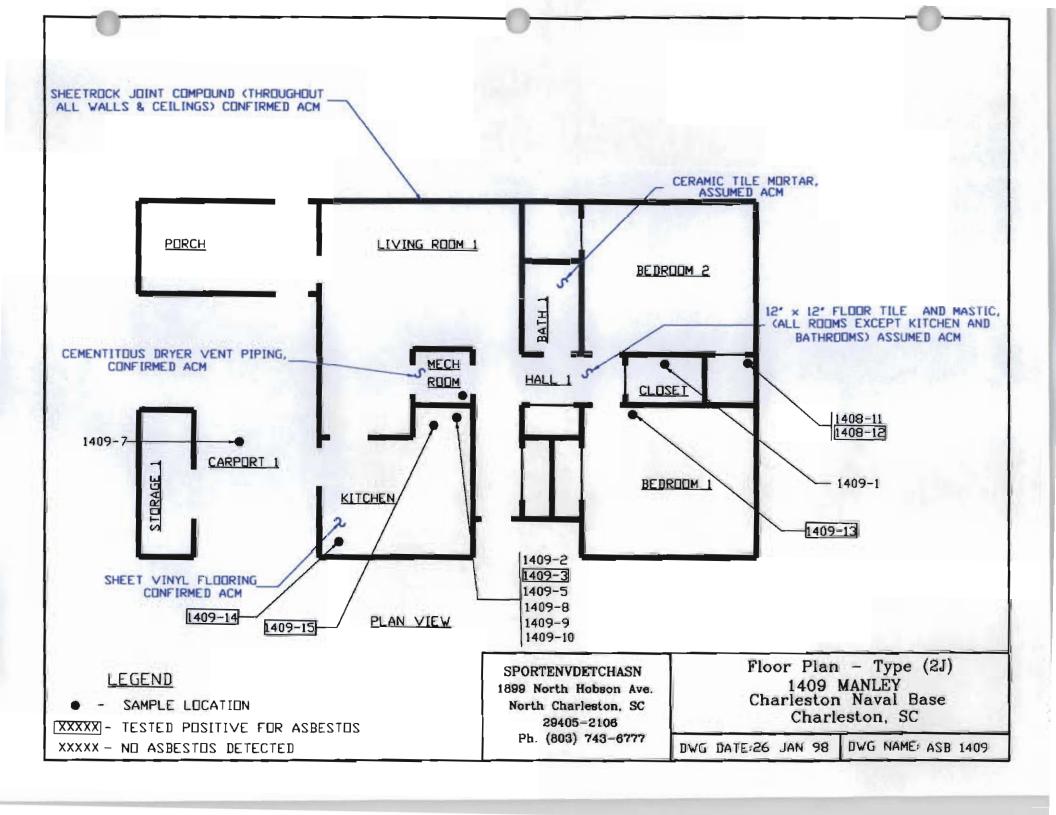
DWG NAME: ASB 1352

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-2	N	MISC.	3300 sq. ft.	6	Y, only	G	<1	0 & M	See Gen. note # 1
1409-MANLEY-5	N	SHEETROCK			where				
1409-MANLEY-9	N	JOINT			damaged				2 sq. ft damaged in
1409-MANLEY-10	N	COMPOUND,							kitchen at washer/dryer
1409-MANLEY-11	N	walls and		1					location
1409-MANLEY-12	Y	ceilings							
1409-MANLEY-13	Y				1				
1410-MANLEY-1	N						1		
1410-MANLEY-6	Y								
1410-MANLEY-11	N				The state of the state of				
1410-MANLEY-12	N								
1410-MANLEY-13	N								
1410-MANLEY-14	N								
1410-MANLEY-15	Y								
1410-MANLEY-16	Y								
1410-MANLEY-17	Y								
1414-MANLEY-I	N			1		-		9	
1420-MANLEY-1	Y								
1420-MANLEY-2	N								
1424-MANLEY-1	N								
1424-MANLEY-2	N								
ASSUMED	A	MISC. FLOOR TILE and MASTIC, 12" x 12", living room, bedrooms 1, 2, and 3,	1000 sq. ft.	8	N	G	0	O&M	
1409-MANLEY-14	Y	closets, mech. room, hall MISC. SHEET	190 sq. ft.	8	N	G	0	O & M	
1409-MANLEY-15	Y	VINYL	190 84.11.	0	IN.	u		O & IVI	
1410-MANLEY-4	Y	FLOORING and							
1410-MANLEY-5	Y	MASTIC, kitchen							

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-4	Y	MISC. CEMENTITOUS PIPING, CLOTHES DRYER VENT, kitchen, mech. room	10 LF	8	N	G	0	O&M	
ASSUMED	A	CERAMIC TILE MORTAR, bathrooms	270 sq. ft.	8	N	G	0	O&M	

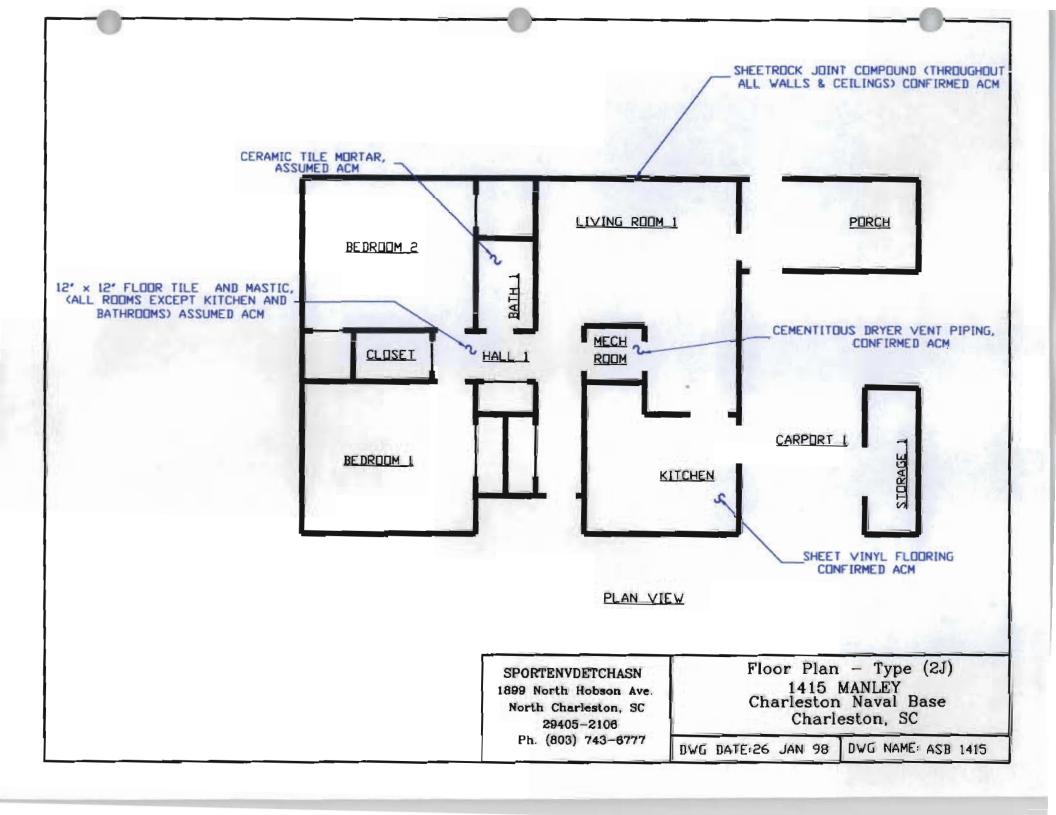


# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-2	N	MISC.	3300 sq. ft.	8	N	G	0	O&M	See Gen. note # 1
1409-MANLEY-5	N	SHEETROCK							
1409-MANLEY-9	N	JOINT							
1409-MANLEY-10	N	COMPOUND,							
1409-MANLEY-11	N	walls and							
1409-MANLEY-12	Y	ceilings							
1409-MANLEY-13	Y					1			
1410-MANLEY-1	N								
1410-MANLEY-6	Y			1					
1410-MANLEY-11	N								
1410-MANLEY-12	N								
1410-MANLEY-13	N								
1410-MANLEY-14	N					3			
1410-MANLEY-15	Y								
1410-MANLEY-16	Y							- 1	
1410-MANLEY-17	Y								
1414-MANLEY-I	N			1					
1420-MANLEY-I	Y			d.					
1420-MANLEY-2	N								
1424-MANLEY-1	N								
1424-MANLEY-2	N								
ASSUMED	A	MISC. FLOOR TILE and MASTIC, 12" x 12", living room, bedrooms	1000 sq. ft.	8	N	G	0	O & M	
		1, 2, and 3, closets, mech. room, hall							
1409-MANLEY-14	Y	MISC. SHEET	190 sq. ft.	8	N	G	0	0 & M	
1409-MANLEY-15	Y	VINYL							
1410-MANLEY-4	Y	FLOORING and							
1410-MANLEY-5	Y	MASTIC, kitchen				1000 TITLETON - 1			

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-4	Y	MISC. CEMENTITOUS PIPING, CLOTHES DRYER VENT, kitchen, mech. room	10 LF	8	Ν	G	0	O & M	
ASSUMED	A	CERAMIC TILE MORTAR, bathrooms	270 sq. ft.	8	N	G	0	O&M	

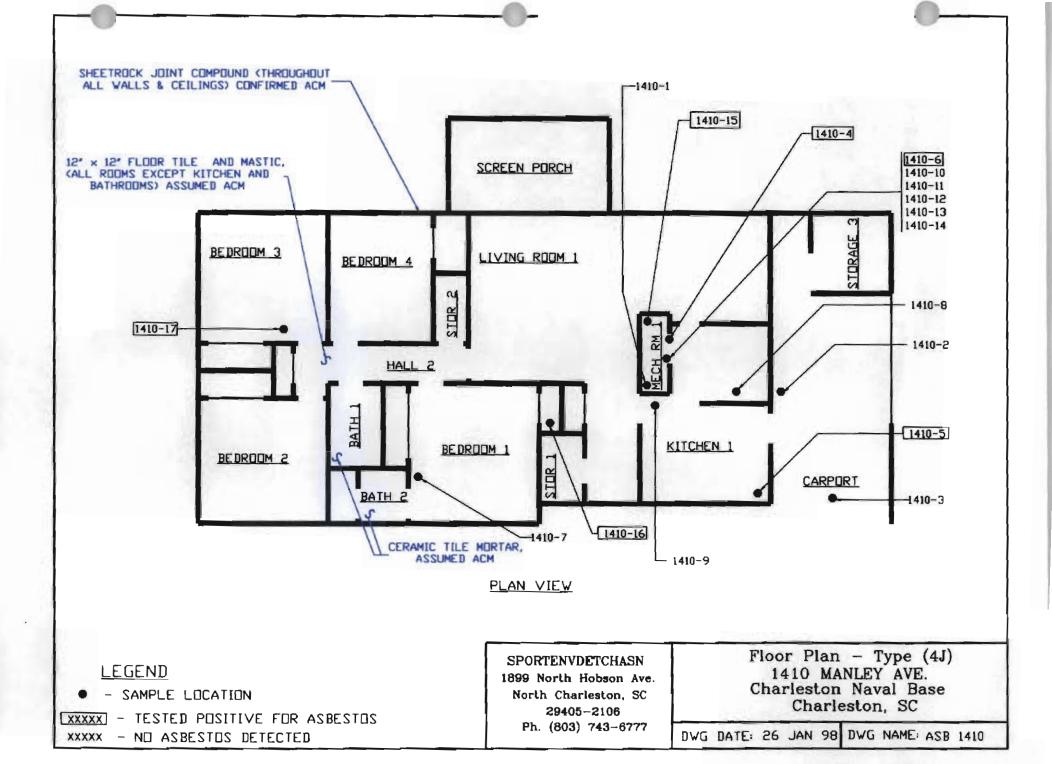


Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-2 1409-MANLEY-5 1409-MANLEY-9 1409-MANLEY-10 1409-MANLEY-11 1409-MANLEY-12 1409-MANLEY-13 1410-MANLEY-1 1410-MANLEY-1 1410-MANLEY-12 1410-MANLEY-13 1410-MANLEY-14 1410-MANLEY-15 1410-MANLEY-16 1410-MANLEY-17 1414-MANLEY-1 1420-MANLEY-1 1420-MANLEY-1	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	MISC. SHEETROCK JOINT COMPOUND, walls and ceilings	3900 sq. ft.	6	Y, only where damaged	G	<	O & M	See Gen. note # 1 Minor damage in hall where approx. 4' section of baseboard is unattached
ASSUMED	A	MISC. FLOOR TILE and MASTIC, 12" x 12", living room, bedrooms 1, 2, and 3, closets, mech. room, hall	1200 sq. ft.	8	N	G	0	O & M	
1409-MANLEY-14 1409-MANLEY-15 1410-MANLEY-4 1410-MANLEY-5	Y Y Y Y	MISC. SHEET VINYL FLOORING and MASTIC, kitchen	190 sq. ft.	8	N	G	0	O & M	

# CHARLESTON NAVAL COMPLEX HOUSING

#### 1410 MANLEY AVENUE

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
ASSUMED	A	CERAMIC TILE MORTAR, bathrooms	270 sq. ft.	8	N	G	0	O & M	



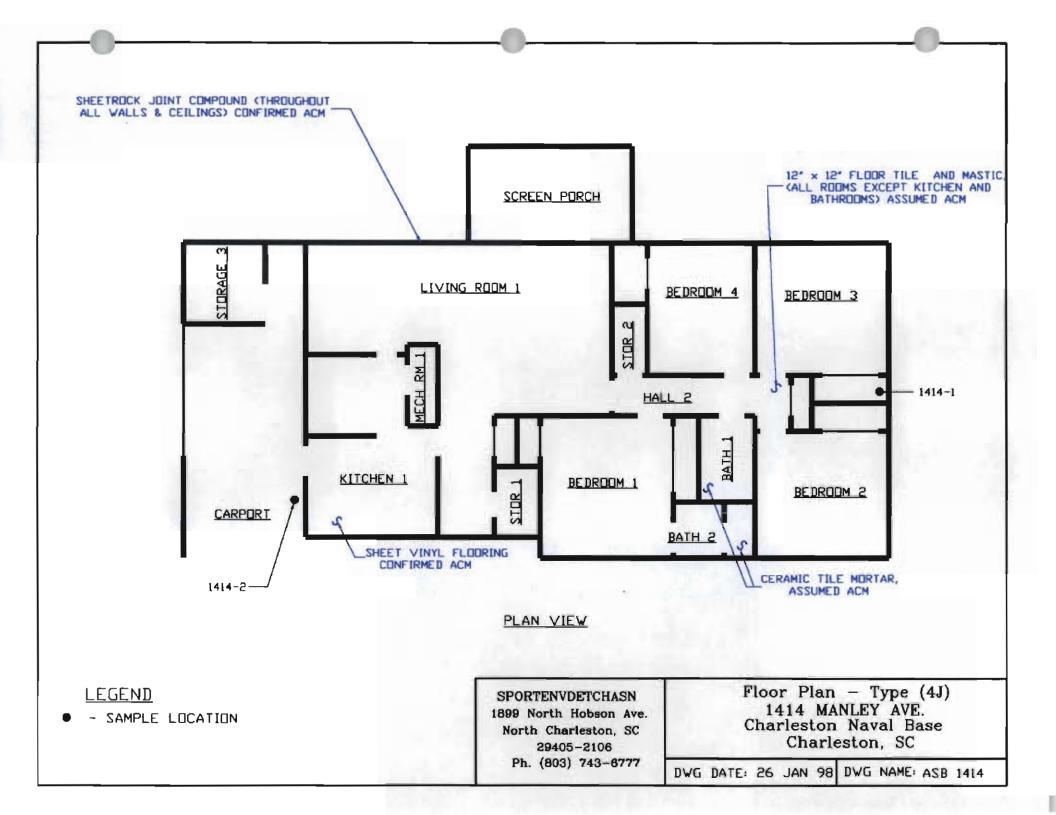
### CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-2	N	MISC.	3900 sq. ft.	8	N	G	0	O&M	See Gen. note # 1
1409-MANLEY-5	N	SHEETROCK	<b>-</b>						
1409-MANLEY-9	N	JOINT			-				
1409-MANLEY-10	N	COMPOUND,				i	400		
1409-MANLEY-11	N	walls and							
1409-MANLEY-12	Y	ceilings							
1409-MANLEY-13	Y								
1410-MANLEY-1	N								
1410-MANLEY-6	Y								
1410-MANLEY-11	N					•			
1410-MANLEY-12	N								
1410-MANLEY-13	N								
1410-MANLEY-14	N					:			
1410-MANLEY-15	Y					i			
1410-MANLEY-16	Y							Ì	
1410-MANLEY-17	Y						į		
1414-MANLEY-1	N								
1420-MANLEY-1	Y								
1420-MANLEY-2	N								
1424-MANLEY-1	N								
1424-MANLEY-2	N								
ASSUMED	A	MISC. FLOOR TILE and MASTIC, 12" x 12", living room, bedrooms 1, 2, and 3, closets, mech.	1200 sq. ft.	8	N	G	0	O&M	
······································	<u> </u>	room, hall				ļ	-		
1409-MANLEY-14	Y	MISC. SHEET	190 sq. ft.	8	N	G	0	O&M	
1409-MANLEY-15	Y	VINYL							
1410-MANLEY-4	Y	FLOORING and							
1410-MANLEY-5	Y	MASTIC,							
	İ	kitchen				1	Ē		

## CHARLESTON NAVAL COMPLEX HOUSING

1414 MANLEY AVENUE

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
ASSUMED	A	CERAMIC TILE MORTAR, bathrooms	270 sq. ft.	8	N	G	0	O & M	

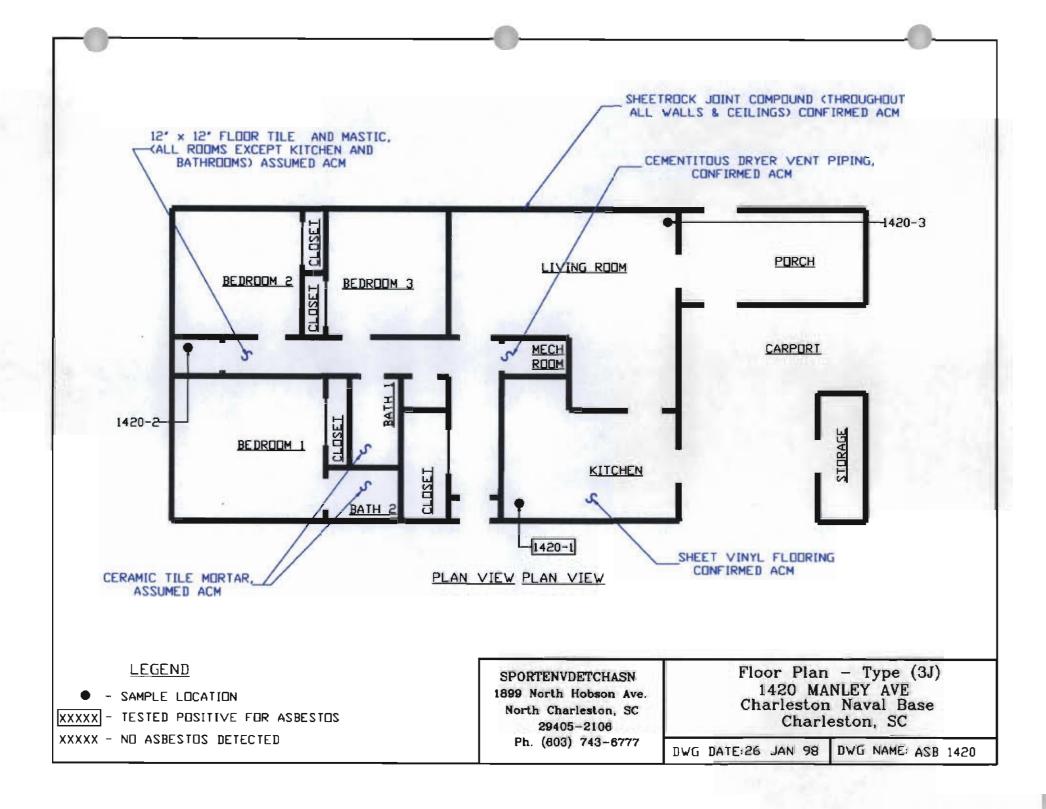


## CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-2	N	MISC.	3500 sq. ft.	6	Y, only	G	<1	O&M	See Gen. note #1
1409-MANLEY-5	N	SHEETROCK	-		where				Minor damage; approx.
1409-MANLEY-9	N	JOINT			damaged				2 sq. ft. in living room
1409-MANLEY-10	N	COMPOUND,				<u> </u>			and 1 sq. ft. in
1409-MANLEY-!!	N	walls and							bedroom 1 where
1409-MANLEY-12	Y	ceilings					:		baseboard is
1409-MANLEY-13	Y								unattached
1410-MANLEY-1	N						•		
1410-MANLEY-6	Y								
1410-MANLEY-11	N								
1410-MANLEY-12	N	:							
1410-MANLEY-13	N								
1410-MANLEY-14	N								
1410-MANLEY-15	Y								
1410-MANLEY-16	Y							ļ	
1410-MANLEY-17	Y								
1414-MANLEY-1	N								
1420-MANLEY-1	Y								
1420-MANLEY-2	N								
1424-MANLEY-1	N	A A A A A A A A A A A A A A A A A A A				İ		•	
1424-MANLEY-2	N	WANTED THE PROPERTY OF THE PRO					4		
ASSUMED	A	MISC. FLOOR TILE and MASTIC, 12" x 12", living room, bedrooms 1, 2, and 3, closets, mech.	1000 sq. ft.	8	N	G	0	O & M	
***************************************	<u> </u>	room, hall	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		<u></u>				
1409-MANLEY-14	Y	MISC. SHEET	190 sq. ft.	8	N	G	0	O&M	
1409-MANLEY-15	Y	VINYL							
1410-MANLEY-4	Y	FLOORING and							
1410-MANLEY-5	Y	MASTIC,							
		kitchen					<u> </u>		

### CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-4	Y	MISC. CEMENTITOUS PIPING, CLOTHES DRYER VENT, kitchen, mech. room	10 LF	8	N	G	0	O&M	
ASSUMED	A	CERAMIC TILE MORTAR, bathrooms	270 sq. ft.	8	N	G	0	O&M	

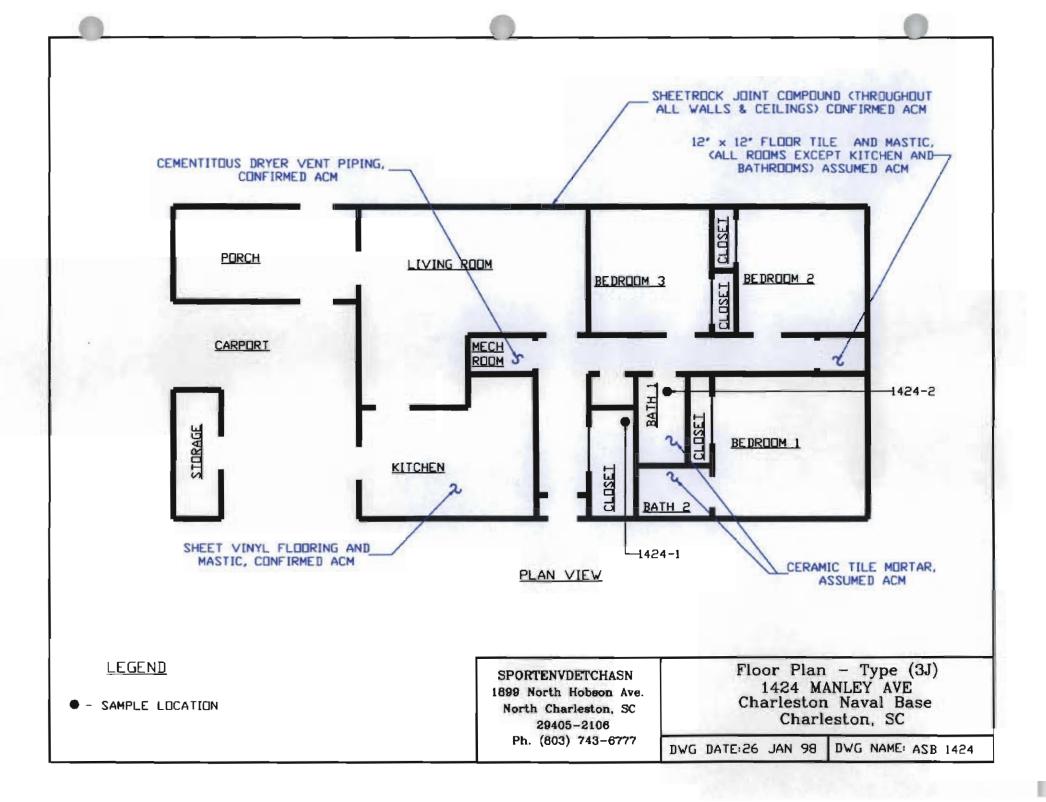


## CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-2	N	MISC.	3500 sq. ft.	8	N	G	: 0	O&M	See Gen. note # 1
1409-MANLEY-5	N	SHEETROCK	•						
1409-MANLEY-9	N	JOINT					ļ		
1409-MANLEY-10	N	COMPOUND,							
1409-MANLEY-11	N	walls and							
1409-MANLEY-12	Y	ceilings							
1409-MANLEY-13	Y								
1410-MANLEY-1	N							appropries and the second seco	
1410-MANLEY-6	Y								
1410-MANLEY-11	N								
1410-MANLEY-12	N			4					
1410-MANLEY-13	N						*		
1410-MANLEY-14	N			TRANSPORT OF THE PROPERTY OF T				***************************************	
1410-MANLEY-15	Y			The state of the s		•			
1410-MANLEY-16	Y								
1410-MANLEY-17	Y								
1414-MANLEY-1	N								
1420-MANLEY-1	Y	STATE AND STATE OF THE STATE OF						***************************************	
1420-MANLEY-2	N								
1424-MANLEY-1	N								
1424-MANLEY-2	N							-	
ASSUMED	Α	MISC. FLOOR TILE and MASTIC, 12" x 12", living room, bedrooms 1, 2, and 3, closets, mech. room, hall	1000 sq. ft.	8	N	G	0	O&M	
1409-MANLEY-14	Y	MISC. SHEET	190 sq. ft.	8	N	G	0	0 & M	······································
1409-MANLEY-15	Y	VINYL			* 1				
1410-MANLEY-4	Ý	FLOORING and			***************************************			***************************************	
1410-MANLEY-5	Y	MASTIC,							
	1	kitchen							

### CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-4	Y	MISC. CEMENTITOUS PIPING, CLOTHES DRYER VENT, kitchen, mech. room	10 LF	8	N	G	0	O & M	
ASSUMED	А	CERAMIC TILE MORTAR, bathrooms	270 sq. ft.	8	N	G	0	O & M	



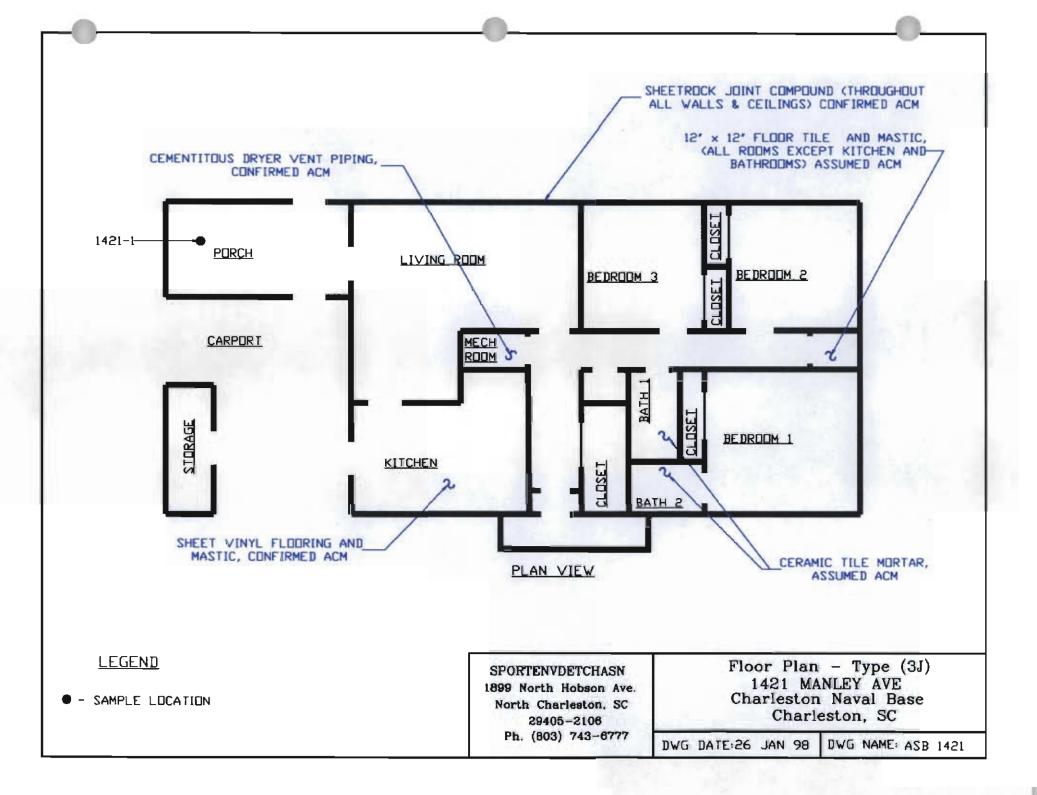
### CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-2	N	MISC.	3500 sq. ft.	8	N	G	0	O&M	See Gen. note # 1
1409-MANLEY-5	N	SHEETROCK	•		****				
1409-MANLEY-9	N	JOINT							
1409-MANLEY-10	N	COMPOUND,							
1409-MANLEY-11	N	walls and					•		
1409-MANLEY-12	Y	ceilings					ì		
1409-MANLEY-13	Y								
1410-MANLEY-1	N								
1410-MANLEY-6	Y								
1410-MANLEY-11	N						1		
1410-MANLEY-12	N								
1410-MANLEY-13	N								
1410-MANLEY-14	N								
1410-MANLEY-15	Y								
1410-MANLEY-16	Y								
1410-MANLEY-17	Y								
1414-MANLEY-1	N								
1420-MANLEY-1	Y								
1420-MANLEY-2	N								
1424-MANLEY-1	N				denina de la companya				
1424-MANLEY-2	N								
ASSUMED	Α	MISC. FLOOR	1000 sq. ft.	8	N	G	0	O&M	
		TILE and	•						
		MASTIC,							
		12" x 12", living					i i		
		room, bedrooms			-				
		1, 2, and 3,							
		closets, mech.							
		room, hall							
1409-MANLEY-14	Y	MISC. SHEET	190 sq. ft.	8	N	G	0	O&M	
1409-MANLEY-15	Y	VINYL							
1410-MANLEY-4	Y	FLOORING and							
1410-MANLEY-5	Y	MASTIC,							
		kitchen							

### CHARLESTON NAVAL COMPLEX HOUSING

#### 1421 MANLEY AVENUE

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-4	Y	MISC. CEMENTITOUS PIPING, CLOTHES DRYER VENT, kitchen, mech. room	10 LF	8	Z	G	0	O & M	
ASSUMED	A	CERAMIC TILE MORTAR, bathrooms	270 sq. ft.	8	N	G	0	O & M	

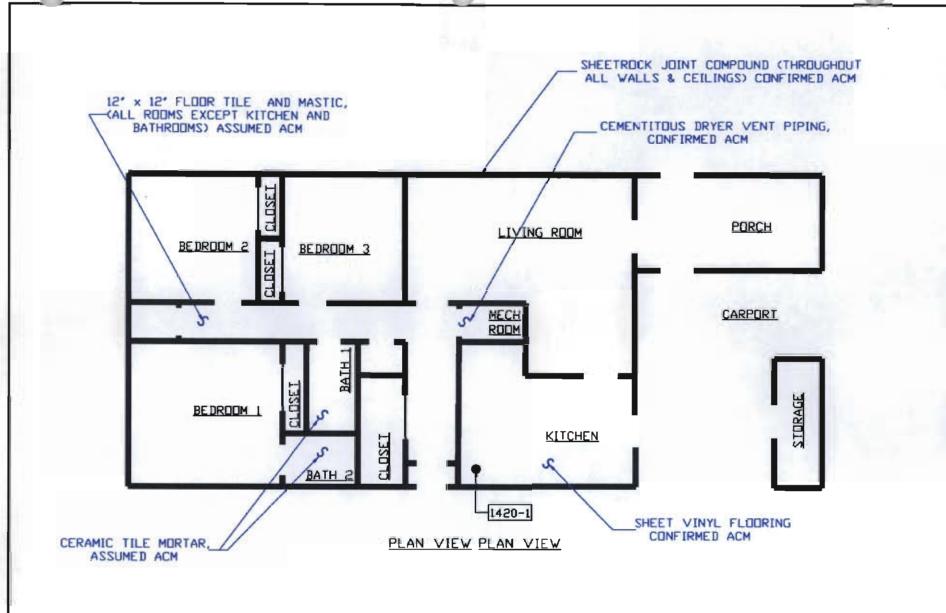


### CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-2	N	MISC.	3500 sq. ft.	8	N	G	0	O&M	See Gen. note # 1
1409-MANLEY-5	N	SHEETROCK	•				1		
1409-MANLEY-9	N	JOINT							
1409-MANLEY-10	N	COMPOUND,			į			1	
1409-MANLEY-11	N	walls and		-	l and				
1409-MANLEY-12	Y	ceilings						]	
1409-MANLEY-13	Y								
1410-MANLEY-1	N						1		
1410-MANLEY-6	Y				]				
1410-MANLEY-11	N				¥3000				
1410-MANLEY-12	N								
1410-MANLEY-13	N								
1410-MANLEY-14	N								
1410-MANLEY-15	Y				ļ		:		
1410-MANLEY-16	Y						,		
1410-MANLEY-17	Y								
1414-MANLEY-1	N					; ;	Ī		
1420-MANLEY-1	Y						ŀ		
1420-MANLEY-2	N				Į į	į			
1424-MANLEY-1	N	***************************************							
1424-MANLEY-2	N			À					
ASSUMED	Α	MISC, FLOOR	1000 sq. ft.	8	N	G	0	O&M	
		TILE and	•						
		MASTIC,					ĺ		
		12" x 12", living							
		room, bedrooms					į.		
		1, 2, and 3,							
		closets, mech.					İ		
	3	room, hall							
1409-MANLEY-14	Y	MISC. SHEET	190 sq. ft.	8	N	G	0	O&M	
1409-MANLEY-15	Y	VINYL	1				i .		
1410-MANLEY-4	Y	FLOORING and			- WAR		i		
1410-MANLEY-5	Y	MASTIC,					: :		
		kitchen				-	;		

## CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-4	Y	MISC. CEMENTITOUS PIPING, CLOTHES DRYER VENT, kitchen, mech. room	10 LF	8	N	G	0	O&M	
ASSUMED	A	CERAMIC TILE MORTAR, bathrooms	270 sq. ft.	8	N	G	0	O&M	



SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777 Floor Plan - Type (3J) 1425 MANLEY AVE Charleston Naval Base Charleston, SC

DWG DATE:26 JAN 98

DWG NAME: ASB 1425

### CHARLESTON NAVAL COMPLEX HOUSING

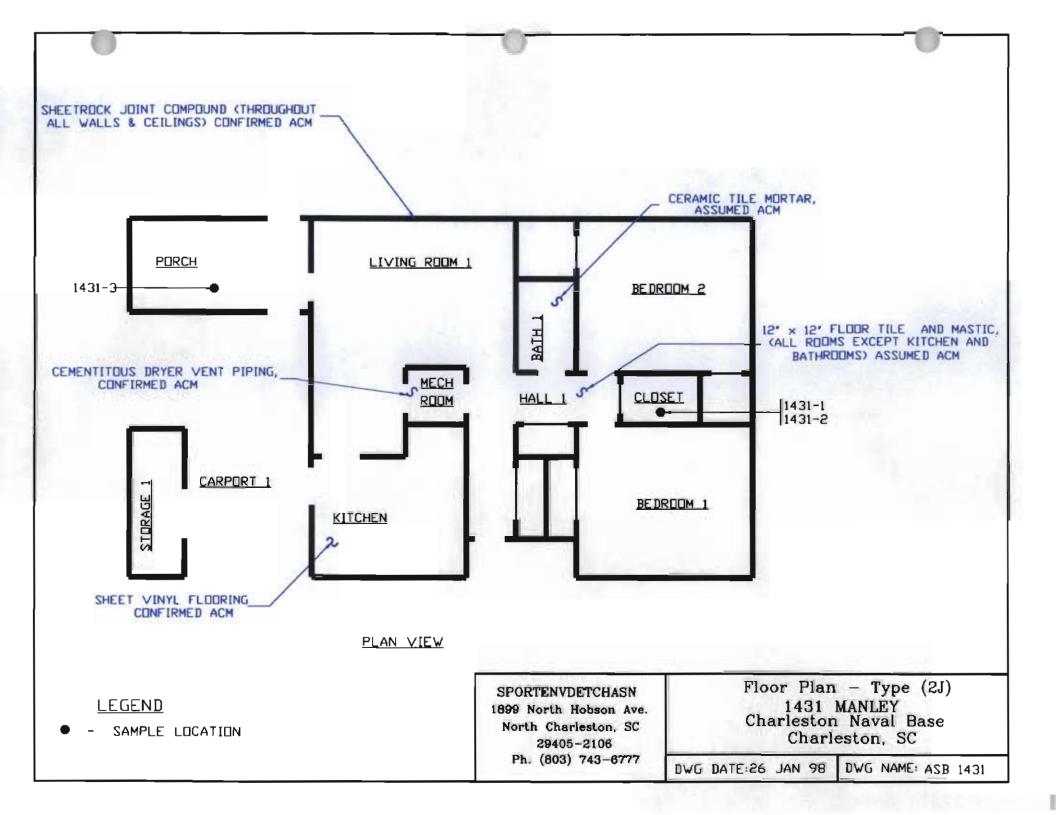
Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-2	N	MISC.	3300 sq. ft.	8	N	G	0	O&M	See Gen. note # 1
1409-MANLEY-5	N	SHEETROCK	•						
1409-MANLEY-9	N	JOINT							
1409-MANLEY-10	N	COMPOUND,							
1409-MANLEY-11	N	walls and				:			
1409-MANLEY-12	Y	ceilings							
1409-MANLEY-13	Y						İ		
1410-MANLEY-1	N								
1410-MANLEY-6	Y			r. anno mana		:	į		
1410-MANLEY-11	N			A. Caracharde		İ			
1410-MANLEY-12	N			nannonaen					
1410-MANLEY-13	N								
1410-MANLEY-14	N								
1410-MANLEY-15	Y								
1410-MANLEY-16	Y								
1410-MANLEY-17	Y								
1414-MANLEY-1	N				ļ				
1420-MANLEY-1	Y								
1420-MANLEY-2	N								
1424-MANLEY-1	N			ACCOUNTS					
1424-MANLEY-2	N			***************************************					
ASSUMED	A	MISC. FLOOR	1000 sq. ft.	8	N	G	0	O&M	
		TILE and		Annendada					
		MASTIC,		and the same of th	ļ		į		
		12" x 12", living		BERNAPPOVE			1		
		room, bedrooms					1		
		1, 2, and 3,					ĺ		
		closets, mech.							
		room, hall			T T T T T T T T T T T T T T T T T T T				
1409-MANLEY-14	Y	MISC. SHEET	190 sq. ft.	8	N	G	0	O&M	
1409-MANLEY-15	Y	VINYL	•		į				
1410-MANLEY-4	Y	FLOORING and							
1410-MANLEY-5	Y	MASTIC,							
		kitchen							

1431 MANLEY AVENUE

### ASBESTOS SURVEY BUILDING SUMMARY TABLE

### CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-4	Y	MISC. CEMENTITOUS PIPING, CLOTHES DRYER VENT, kitchen, mech. room	10 LF	8	N	G	0	O & M	
ASSUMED	A	CERAMIC TILE MORTAR, bathrooms	270 sq. ft.	8	N	G	0	O & M	



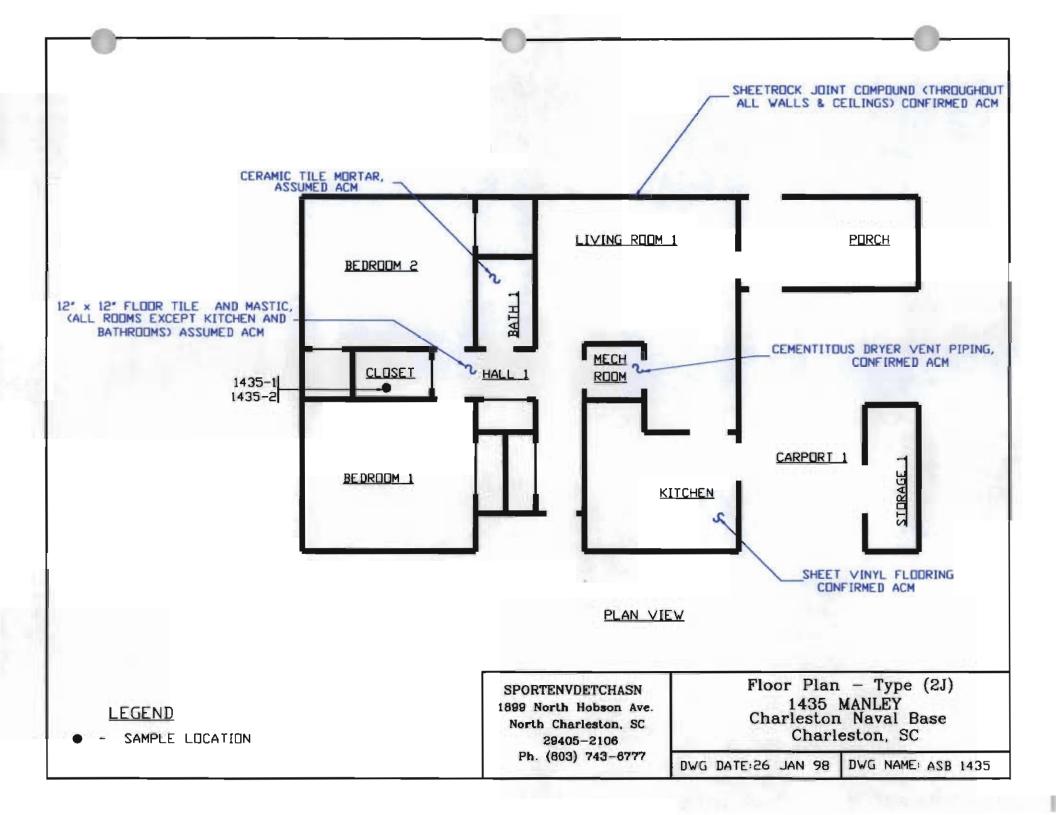
# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-2	N	MISC.	3300 sq. ft.	8	N	G	0	O&M	See Gen. note # 1
1409-MANLEY-5	N	SHEETROCK		_		_	-		
1409-MANLEY-9	N	JOINT							
1409-MANLEY-10	N	COMPOUND,							
1409-MANLEY-11	N	walls and						V V	
1409-MANLEY-12	Y	ceilings						aranger and a second	
1409-MANLEY-13	Y							and the state of t	
1410-MANLEY-1	N						•		
1410-MANLEY-6	Y							-	
1410-MANLEY-11	N						•		
1410-MANLEY-12	N								
1410-MANLEY-13	N								
1410-MANLEY-14	N								
1410-MANLEY-15	Y								
1410-MANLEY-16	Y								
1410-MANLEY-17	Y								
1414-MANLEY-1	N								
1420-MANLEY-1	Y							i	
1420-MANLEY-2	N								
1424-MANLEY-1	N			Average of the second of the s					
1424-MANLEY-2	N							377464	
ASSUMED	Α	MISC. FLOOR	1000 sq. ft.	8	N	G	0	O&M	······································
		TILE and	1000 041 111						
		MASTIC,							
		12" x 12", living							
		room, bedrooms						]	
		1, 2, and 3,							
		closets, mech.							
		room, hall							
1409-MANLEY-14	Y	MISC. SHEET	190 sq. ft.	8	N	G	0	O & M	
1409-MANLEY-15	Y	VINYL	190 34.16	0	17	U		0 & 141	
1410-MANLEY-4	Y	FLOORING and							
1410-MANLEY-5	Y	MASTIC,							
1 TIVE WITH TELL I TO	1	kitchen			and district the state of the s		1		

### CHARLESTON NAVAL COMPLEX HOUSING

#### 1435 MANLEY AVENUE

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
1409-MANLEY-4	Y	MISC. CEMENTITOUS PIPING, CLOTHES DRYER VENT, kitchen, mech. room	10 LF	8	N	G	0	O&M	
ASSUMED	A	CERAMIC TILE MORTAR, bathrooms	270 sq. ft.	8	N	G	0	O&M	



1899 North Hobson Avenue

From (Project) Envir. Eng. & Remediation SAMPLES TAKEN BY LICENSED INSPE	n Detachment Building 135	Z Av. G Date	4/11/9-			
INSPECTOR C. Drum	DHEC LICENSE NO $31682$ EXPIRATION DATE $8/2$					
			- 1			
INSPECTOR  /3. M  NOTIFY OF RESULTS NAME Roves G	harpia 7 PHONE NO 743-641	82 Ext 230				
Relinquished to Lining of fruits	Date 4-14-97					
Relinquished to fining of fruits  Relinquished by C. Qrum	Date 4/,4/97					
Logged in by						
	INED BY POLARIZED LIGHT MICROSCOP	Y AND DISPERSION STAINING)				
Sample OSH No No	Location/Description	Asbestos Type (or None)	Analyst Initials			
1352-1 Atti i	nsulation	NONE	211			
}						
	<u> </u>					
Analysi(s) J. Amet Date A	<del>4-15-</del> 97	<u> </u>	<u></u> }			
Results Logged Date						

#### 1899 North Hobson Avenue

DHEC LICENSE NO.  DHEC LICENSE NO.  PHONE NO. 743-6482 E  Date  Date	EXPIRATION DATE	
PHONE NO 743-6482 E  Date  Date	EXPIRATION DATE	
PHONE NO 743-6482 E  Date  Date	Ext. 230	
Date		
Date		
NED BY POLARIZED LIGHT MICROSCOPY A	ND DISPERSION STAINING)	<del></del>
Location/Description	Asbestos Type (or None)	Analyst Initials
	NONE	0.1.1.
KITCHEN	NONE	216.
, BASEBOARD, KITCHEN	CHRYSOTILE	111
ENT BUET	CHRYSOTILE CANTING TE	01.1.
R, Kitchen		
<u> </u>		
<u>18/9</u> 7	1	<u> </u>
		Location/Description  Asbestos Type (or None)  NONE  KITCHEN  BASEBOARD, KITCHEN  CHRYSOTILE  CHRYSOTILE  CHRYSOTILE  CHRYSOTILE  CHRYSOTILE  CROCIDENTE

1899 North Hobson Avenue

### North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION

		1409	,	,
From: (Project) Envir. SAMPLES TAKEN B	Eng. & Remediation Y LICENSED INSPE	Detachment Building 1309.	MANLEY (763) Date:	4/9/97
INSPECTOR $C \cdot \lambda$	rum	_ DHEC LICENSE NO 2168	2 EXPIRATION DATE	8/21/9-
INSPECTOR		DHEC LICENSE NO.	EXPIRATION DATE	·
NOTIFY OF RESULT	Bruce 1 S: NAME Royce Ch	DHEC LICENSE NO.  PHONE NO 743-6	482 Ext. 230	
Relanquished to	.LAUX	Date 4-9-97	<u></u>	
Relinquished by		Date	_	
Logged in by		Date	_	
(IDENT	TFICATION IS DETERMI	NED BY POLARIZED LIGHT MICROSCO	PY AND DISPERSION STAINING)	<del></del> 1
Sampie OSH No No.		Location/Description	Asbestos Type (or None)	Analyst Initials
1409-5	Kitchen Pock ben. Paper onl	, damaged sheet nd baseboard, Che	ich NONE	word
_				
Analyst(s)  Analyst(s)	Date	<u>1-9-9</u> )		

1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

From. (Project) Envir. Eng. & Remedi SAMPLES TAKEN BY LICENSED IN	iation Detachment Building (763) 140	Manley Date:	4/28/9-
INSPECTOR C. Dram	DHEC LICENSE NO. 21682	EXPIRATION DATE	8/21/97
INSPECTOR	DHEC LICENSE NO.	EXPIRATION DATE	
NOTIFY OF RESULTS: NAME ROY	DHEC LICENSE NO.  CLE MUTTAY PHONE NO. 743-6482 I	Ext. 230	
Relinquished to	Date 4/28/97		
Relinquished by C. ollum	Date 4/28/97		
Logged in by	Date		
(IDENTIFICATION IS DET	TERMINED BY POLARIZED LIGHT MICROSCOPY A	ND DISPERSION STAINING)	<del></del>
Sample OSH No No.	Location/Description	Asbestos Type (or None)	Anaivst Initials
1409-7 Putty-	Corport overhead	NONE	WX
			+
		<del></del>	
Analyst(s) Da	sie 5-1-97		
Analyst(s) Da			
Results Logged Da	ate		

#### 1899 North Hobson Avenue

	vir. Eng. & Remediation  N BY LICENSED INSPEC		ANCE 7 AVE Date:	1-8.78
INSPECTOR	Pevet MURRAY	DHEC LICENSE NO 21687	EXPIRATION DATE	8/20/93
INSPECTOR		DHEC LICENSE NO.	EXPIRATION DATE	
NOTIFY OF RESU	ILTS. NAME G. MUR	PHONE NO Ext.	234	
Relinquished to	J. Smith	Date 1-8-98		
Relinquished by	MIZ	Date 1/8/98		
Logged in by		Date		
(10	ENTIFICATION IS DETERMI	NED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)	
11	SH No.	Location/Description	Asbestos Type (or None)	Analyst Initials
1409		MASTIC (MASTIC ONLY)		
-MANGT -8	1	BIECE BASERONED	None	wen
-9	BEHIND BASE	CORED SAMPLE FROM EDOARD, NOT THROUGH MASTIC	NoNe.	uEn
-10	BASEROARD, THE	CORFO SAMPLE FROM BEHIND PROUCH MASTIC, IN KITCHEN SEBOARD)	NONe.	WEM
- 11	BASERCARD,	CRED SAMPLE FROM BEHIND THROUGH MASTIC, IN 05ET (RROWN RHSERCARD)	NoNe	wenu
- 12	SHEETTLOCK ; C THROUGH TAR BEDALTM CL	CORED CAMPILE FROM CORNER OF FOUNT COMMUNDS	-CHRISOTIL e	wen
-13	SHEETROCK /	SOINT COMPOUND FROM	CHRYSOTILE	wen
-14	WAO and	LACE THIS SAMPLE WEATHON	CHEYSOTILE	NEM
-/5-	THIS SAMPLE	FIER, Z LAYERS AT COCATION JNOLAYER	CHRYSOTILE	wen
Analyst(s) (L), & Analyst(s) Results Logged		/9/98		

1899 North Hobson Avenue

From (Project) Envir. Eng. & Remediation SAMPLES TAKEN BY LICENSED INSPEC	Detachment Building 1410	Manley Date	4/22/97
INSPECTOR (). Drum	_ DHEC LICENSE NO 21682	EXPIRATION DATE	8/21/97
	DHEC LICENSE NO		· ·
NOTIFY OF RESULTS NAME Royce Ch		Ext. 230	
Relinquished to Jumy of Smith	Date		
Relinquished to C. Drum	Date 4/22/47		
Logged in by			
(IDENTIFICATION IS DETERMI	NED BY POLARIZED LIGHT MICROSCOPY A	ND DISPERSION STAINING)	
Sample OSH No No	Location/Description	Asbestos Type (or None)	Analyst Initials
manley Room	under heater in M2CM	NONE	NA
1410-Z Dryer Ver	it Caniking, CARPORT	NONE	Mit
		i i	
Analyst(s) Date	<u>4-30</u> -97		
Analyst(s) Date			
Results Logged Date			

1899 North Hobson Avenue

		MI	11/- 1 -
SAMPLES TAKEN BY LICENSE	` '	•	·
INSPECTOR C. Drum	DHEC LICENSE NO 21682	EXPIRATION DATE	8/21/97
INSPECTOR	DHEC LICENSE NO.	EXPIRATION DATE	
NOTIFY OF RESULTS. NAME	DHEC LICENSE NO.  Bruce Muira PHONE NO. 743-6482	Ext. 230	
Relinquished to WA	Ox Date 4-28-97		
Relinquished by C. Du	Date 4/28/97		
Logged in by	•		
(IDENTIFICATION I	IS DETERMINED BY POLARIZED LIGHT MICROSCOPY	AND DISPERSION STAINING)	<del></del>
Sample OSH No. No.	Location/Description	Asbestos Type (or None)	Analyst Initials
1410-3 Putt manley CAR	y from plywood doint PORT overhead	NONE	MZ
Analyst(s) Warf	Date 5-1-97	<del></del>	
Analyst(s)	Date		
Results Logged	Date		

#### 1899 North Hobson Avenue

### North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION

		ng. & Remedia LICENSED INS	tion Detachment PECTOR(S).	Building	1410 MA.	NLEY AVE	_Date: _	1-7-98
INSPECTOR	JAMES	LEWIS	DHEC LIC	ENSE NO	21687	EXPIRATION	DATE	8-20 93
INSPECTOR	BRUCK	MURRIY	DHEC LIC	ENSE NO	21686	EXPIRATION	DATE	8-20-98
NOTIFY OF P	RESULTS.	NAME BRUG	MURPAY	PHONE NO	Lx1	234		
Relunquished to	· J. J.	Anth	Date	1-8-9	98			
Relinquished	BB.	May	Date	1-8.98	<del></del>			
Logged in by		$\mathcal{L}$	Date					
<del></del>	(IDENTIFIC	CATION IS DETE	RMINED BY POLAR	IZED LIGHT M	ICROSCOPY AN	D DISPERSION STAIN	(ING)	<del> </del>
Sample No	OSH No		Location/Des	scription		Asbestos Ty (or None)	•	Analyst Initials
1410- MANGY -4		MULTIPLE L	VINYL FLO AYURS (KIT	coper)	Middle Boytom Layer	CHRYSUTI	LE	J.J. S.
-5		MULTIPY.	NYL FLOORI	HAN) B	of ton Ayen	CHRYSOTI CHRYSOTILI	ξ -	111.
-6		BASEBOARD BASEBOAR	D WASTIC	COLOR A	noterial N. *	CHRY SotiA	' <u>e</u>	1 d. b.
- 7			, 	·		NONE	<i>,</i>	118.
- 87		BASE BOAI BHEGE	ED MASTIC BASE BUAR	b FROM	7	NONE	0	1.5.
- 9						NONE		1.1.8.
				<del></del>				
Analyst(s)	ing J.	Jan Date	/- 8 <b>- 9</b> 8			- composits BBThuy	-	
Analygis)	<del>_</del>	Date						
Results Logged		Date						

#### 1899 North Hobson Avenue North Charleston, South Carolina 29405-2106

ASBESTOS IDENTIFICATION

From: (Project) Envir. E SAMPLES TAKEN BY	Ing. & Remediation Detachment Building 1410 - M	WIEY AUE. Date:	1-8-9 2
INSPECTOR Beve	MURRAY DHECLICENSE NO 21687	_ EXPIRATION DATE	8/20/18
INSPECTOR	DHEC LICENSE NO	EXPIRATION DATE	
NOTIFY OF RESULTS	NAME BELLE MURERY PHONE NO Ext. 2	34	
Relinquished to J. J	South Date 1-8-98		
Relinquished by	Date 1-8-98		
Logged in by	Date		
(IDENTIF	TCATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)	
Sample OSH No No.	Location/Description	Asbestos Type (or None)	Analyst Initials
1410- MANG4 -10	BASEBOARD MASTIC (ADDRESS TO BASEBOARD)	NONE	118.
1410 -MANCE 4	IN MECH- ROOM) CORE SAMPLE	NONE	0.1.1
1410 -MANCEY -12	SHEET ROCK - CORE SAMPLE FROM DIRECTLY BEHIND BASEBOARD WITH NO MASTIC (MECHROOM)	NONE	ad. S.
-13	SHEETROBIK - CORE SAMPLE FROM DIRECTLY BEHIND BASEBOARD WITH ADHLED MASTIC (MECH. ROOM)	NONE	1.J. S.
-14	SHEETROCK · CORE SAMPLE , APPROX. 4' UP FROM FLOOR - NO APPAREENT JOINT COMPOUND OR TARL.	NONE	1. J. S.
-15-	SHEETROCK - SAMPLE FROM CORNER W/TAPE  AND JOINT COMPOUND (MELH. ROOM)	CHRY SO TILE	1.1.8.
- 16	WITAPE + JOINT COMPOUND (BEDROOM CLOSET)	CHRYSOTILE	11.8.
~ 17	SHEETROCK SOUTH PLATE IN BEDROOM	CHRYSOTILE	1.1.1.
Analyst(s) Juniory J.  Analyst(s)  Results Logged	Date 1-8-98  Date		

#### 1899 North Hobson Avenue

From (Project) Envir. E SAMPLES TAKEN BY	ing. & Remediation Detachment LICENSED INSPECTOR(S)	Building 1420	Menley Date	4/22/9-
	Thm DHEC LIC	ENSE NO 2168Z	EXPIRATION DATE	8/21/97
INSPECTOR	DHEC LIC			* 1
NOTIFY OF RESULTS	NAME Rovce Charpia	PHONE NO 743-6482 F	Ext 230	
Relinquished to Limin	y f. Amth Date	4-22-97		
Relinquished by C. Q	run Date 4	1/22/97		
	Date			
(IDENTIF	ICATION IS DETERMINED BY POLAR	IZED LIGHT MICROSCOPY A	ND DISPERSION STAINING)	
Sample OSH No No	Location/De	•	Asbestos Type (or None)	Analyst Initials
1420-1	Sheetrock, Kitch by sink. PUTT Sheetrock, Clased	un wall switch	CHRYSOTILE	Λ fl
Manley	by sink. PUTT	У	NONE	M
Manley	Shestrock, Closed Shestrock, Closed Shestrock, Closed Shestrock, Closed Shestrock, Closed Shestrock, Closed Shestrock, Closed Shestrock, Closed Shestrock, Closed Shestrock, Closed Shestrock, Closed Shestrock, Closed Shestrock, Closed Shestrock, Closed Shestrock, Closed Shestrock, Closed Shestrock, Company, Com	C 12 10 10 10 10 10 10 10 10 10 10 10 10 10	NONE CIRYSOTILE	- mar
1420-3	Unix baseboard	mastie,	1	- A
manley	Juny room		NONE	MR
			-	
Analyst(s)	Date 1 20	-9)		
Results Logged	Date			

1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

From (Project) Envir. En SAMPLES TAKEN BY L	g. & Remediation Detachment ICENSED INSPECTOR(S)	Building 1421 //	lan leg Date	4/28/7
INSPECTOR C. Dr	UYN DHEC LICE	ense no <u>21687</u>	_ EXPIRATION DATE	8/21/97
	DHEC LICE			. ,
	NAME Rovce Charpia		t. 230	
Relinquished to	V. LOSane	1-28-97		
Relinquished by C.D	N, LAUXae C	128/77		
	Date	<del></del>		
(IDENTIFIC	ATION IS DETERMINED BY POLARIZ	ZED LIGHT MICROSCOPY AND	DISPERSION STAINING)	<del></del>
Sample OSH No No	Location/Desc	· 1	Asbestos Type (or None)	Analyst Initials
1421-1 MANLEY	Putty from joint overhead forch	p/4m008	NONE	w
Analyst(s)	2m Poate 5-1-9)			
Results Logged	Date			

1899 North Hobson Avenue

From (Project) Envir. Eng SAMPLES TAKEN BY LI	E. & Remediation Detachment Building 763 1431	MANLEY AVDate	4/11/9-	
INSPECTOR C. Dru	DHEC LICENSE NO 21682	EXPIRATION DATE	8/21/97	
INSPECTOR	DHEC LICENSE NO			
NOTIFY OF RESULTS N	NAME ROVCE Charpia PHONE NO 743-6482 Ext	. 2 <u>3</u> 0		
Relinquished to Quinny	1. Anto Date 4-14-97			
Relinquished by C. Da	1. Anth Date 4-14-97  Date 4/14/97			
Logged in by	Date			
(IDENTIFIC.	ATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AND	DISPERSION STAINING)		
Sample OSH No No	Location/Description	Asbestos Type (or None)	Analyst Initials	
	ATTIC INSULATION	<del></del>		
Manley		NONE	Q1 A.	
1431-Z Manley	Affic access pest up insulation	NONE		
1431-3	Porch 1, mastic	NONE	1.1 A.	
Manley	forch 1, mastic	NONE	111	
, annea		NONE	J.J. J.	
	1	,		
	,			
Analysi(s) frame J. Analysi(s)  Results Logged	Date			

1899 North Hobson Avenue

From (Project	t) <b>Envir. E</b> AKEN BY I	ng. & Remediatio	n Detachment	Building (	765) 1435	5 Manley D	ate 4	/11/9-	
INSPECTOR C. Drum		DHEC LIC	DHEC LICENSE NO 21682		EXPIRATION DA	ATE 8	/21/9-		
INSPECTOR			DHEC LICENSE NO			,			
NOTIFY OF I	RESULTS	NAME Rovce C	haroia	_PHONE NO 7	43-6482 Ext	230			
Relinquished t	o Jeman	un-	Date	+-14-97					
Relinquished à	1. C. D.	un-	Date 4/	1,4/97					
Logged in by		_ <del></del>		<del></del>					
[	(IDENTIFI	CATION IS DETERM	INED BY POLAR	IZED LIGHT MICE	OSCOPY AND	DISPERSION STAINING	G)		
Sample No	OSH No		Location/Des	scription		Asbestos Type (or None)		Anaiyst   Initials	
1435-1		Attir inn	Matron					————i	
Manley		71				NONE		1. J. S.	
1435-2 MANLEY		Attir acce.	n fush u	p, insulali	nz	NONE		1.1. 1.	
				· ·			1		
		<u> </u>							
								ļ	
							_		
				<del></del>		<del></del>			
		1							
	<del></del>	<u> </u>				<u> </u>			
Analyst(s)	<del>y</del>	Anith Date 4	<u> </u>						
Analysi(s)		Date _							
Results Logged		Date	<b>-</b>						

#### ASBESTOS SURVEY TYPE "S" HOUSING CHARLESTON NAVAL COMPLEX CHARLESTON, S.C.

#### 1. **DESCRIPTION**:

The eight houses listed below are built to the TYPE S floor plan style. All units are similar in construction and have materials that are homogeneous to all "S" type houses. Approximate construction year is 1963 for the 3S houses and 1965 for the 3SA and 4S houses. The 3S units are 2110 square feet (total area including porch and carport) and have three bedrooms. The 3SA units are 1750 square feet (total area) and have 3 bedrooms. The 4S units are 2111 square feet (total area) and have 4 bedrooms. Each unit has brick veneer exterior with asphalt shingled roof. Houses are in good condition. Also, many of the materials found in these houses are homogeneous to materials in the "J" style houses.

Building No:	<u>Address:</u>	<u>Plan Type:</u>
705	97 Navy Way	4S
719	170 Turnbull	3SA
717	190 Turnbull	4S
706	315 Navy Way	3S
700	378 Turnbull	3S
701	399 Turnbull	3 <b>S</b>
712	1422 Hobson	3\$
708	1468 Hobson	3SA

#### 2. FINDINGS:

Eight homogeneous materials were identified as possible Asbestos Containing Material (ACM). Of the 8 homogeneous materials, 2 were confirmed to contain asbestos, 3 were assumed to contain asbestos, and 3 were found to be asbestos free.

#### CONFIRMED ACM

- 1. SHEETROCK JOINT COMPOUND, walls and ceilings throughout houses, see General Note 1
- 2. SHEET VINYL FLOORING and MASTIC, in kitchens

#### ASSUMED ACM

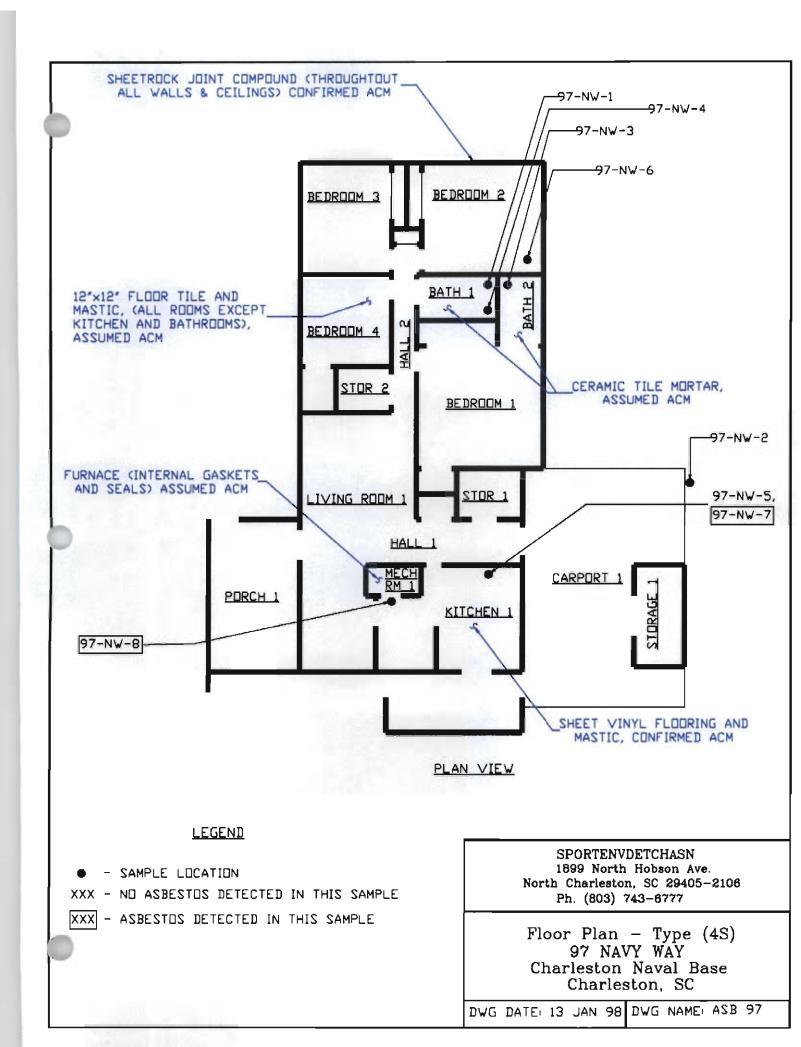
- 1. FLOOR TILE and MASTIC, 12" x 12", in all rooms except kitchens and bathrooms
- 2. FURNACE, in mech. room, see general note #3
- 3. CERAMIC TILE MORTAR, in all bathrooms

#### ASBESTOS FREE

- 1. ATTIC INSULATION
- 2. CAULKING
- 3. BASEBOARD MASTIC, all rooms except bathrooms

## CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
190-TURNBULL-1	Y	MISC.	4538 sq. ft.	8	N	G	0	O&M	See General Note 1
190-TURNBULL-2	N	SHEETROCK							
170-TURNBULL-1	N	JOINT		ļ					
170-TURNBULL-2	N	COMPOUND							
170-TURNBULL-3	Y								
ASSUMED	Α	MISC., FLOOR TILE and MASTIC, 12" x 12",	1100 sq. ft.	8	Ŋ	G	0	O&M	
		all rooms except kitchens and bathrooms							
378-Tumbull-1 378-Tumbull-2 378-Tumbull-3 378-Tumbull-4 97-NW-7 97-NW-8	Y N Y N Y Y	MISC., SHEET VINLY FLOORING and MASTIC, kitchens	176 sq. ft.	8	7.	G	2	O & M	3 sq. ft. damaged in kitchen at range location Also, there are multiple layers of sheet vinyl flooring.
ASSUMED	Α	TSI, FURNACE		A Principal Prin					See General Note 3
ASSUMED	A	MISC., CERAMIC TILE MORTAR	284 sq. ft.	8	N	G	0	O & M	

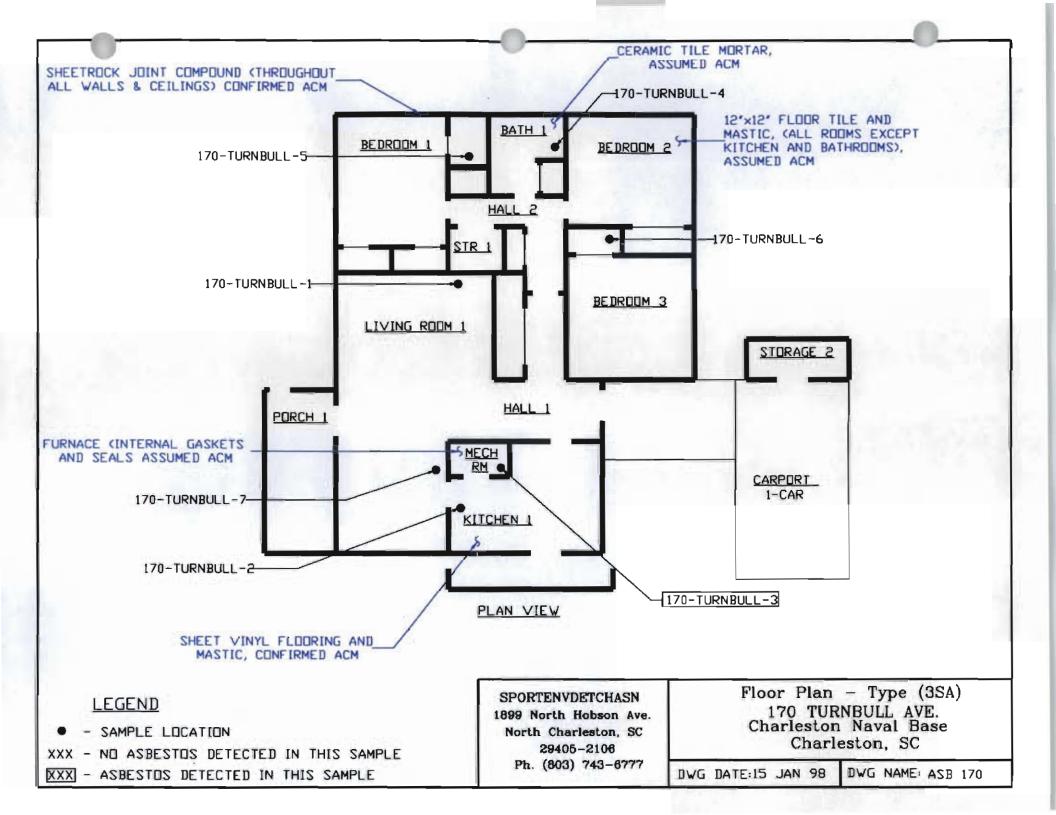


#### ASBESTOS SURVEY BUILDING SUMMARY TABLE

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
190-TURNBULL-1	Y	MISC.	3965 sq. ft.	8	N	G	0	O & M	See general note # 1
190-TURNBULL-2	N	SHEETROCK		1	1		!		
170-TURNBULL-1	N	JOINT							
170-TURNBULL-2	N	COMPOUND							
170-TURNBULL-3	Y								
ASSUMED	A	MISC., FLOOR TILE and MASTIC, 12" x 12", all rooms except kitchens and bathrooms	1100 sq. ft.	8	Z	G	0	O & M	
378-Turnbull-1 378-Turnbull-2 378-Turnbull-3 378-Turnbull-4 97-NW-7 97-NW-8	Y N Y N Y Y	MISC., SHEET VINLY FLOORING and MASTIC, kitchens	176 sq. ft.	8	N	G	0	O&M	
ASSUMED	A	TSI, FURNACE							See general note # 3
ASSUMED	A	MISC., CERAMIC TILE MORTAR	284 sq. ft.	8	N	G	0	O&M	

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet

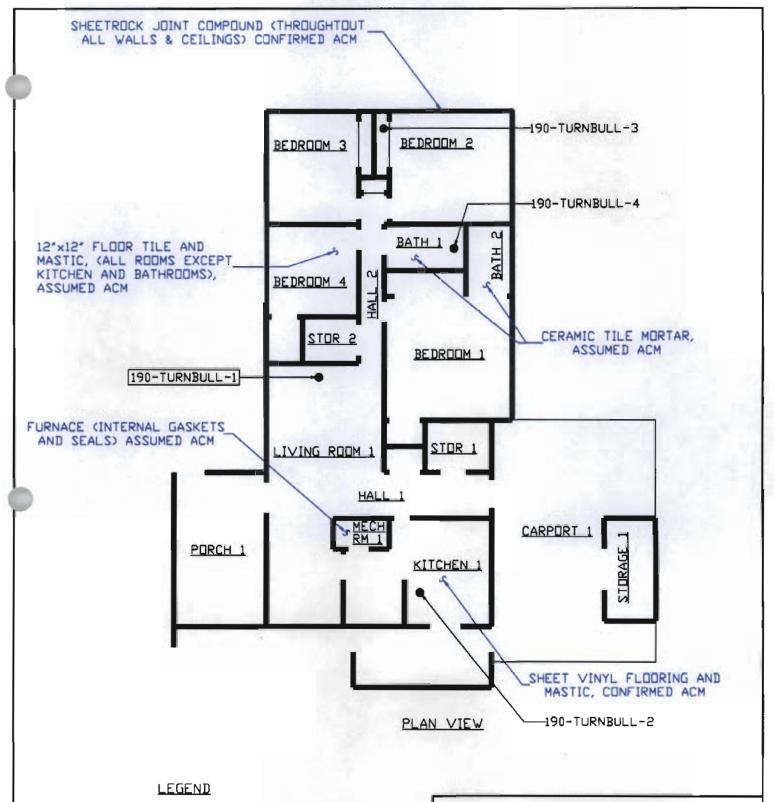


#### ASBESTOS SURVEY BUILDING SUMMARY TABLE

### CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
190-TURNBULL-1	Y	MISC.	4538 sq. ft.	8	N	G	0	O&M	See general note # 1
190-TURNBULL-2	N	SHEETROCK		İ			ĺ		
170-TURNBULL-1	N	JOINT							
170-TURNBULL-2	N	COMPOUND							
170-TURNBULL-3	Y						<u> </u>		·····
ASSUMED	A	MISC., FLOOR TILE and MASTIC, 12" x 12", all rooms except kitchens and bathrooms	1100 sq. ft.	8	N	G	0	O & M	
378-Tumbull-1 378-Tumbull-2 378-Tumbull-3 378-Tumbull-4 97-NW-7 97-NW-8	Y N Y N Y Y	MISC., SHEET VINLY FLOORING and MASTIC, kitchens	176 sq. ft.	8	N	G	0	O & M	
ASSUMED	A	TSI, FURNACE							See general note # 3
ASSUMED	A	MISC., CERAMIC TILE MORTAR	284 sq. ft.	8	N	G	0	O&M	

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet



- SAMPLE LOCATION

XXX - NO ASBESTOS DETECTED IN THIS SAMPLE

XXX - ASBESTOS DETECTED IN THIS SAMPLE

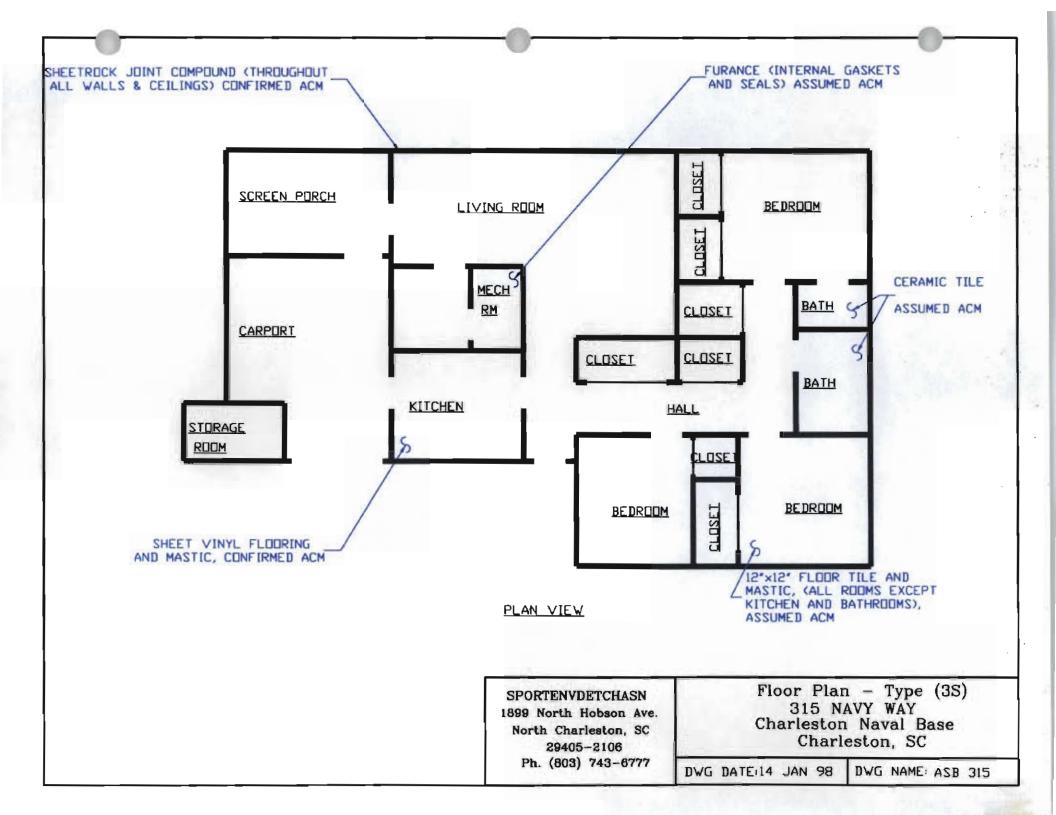
SPORTENVDETCHASN 1899 North Hobson Ave. North Charleston, SC 29405-2106 Ph. (803) 743-6777

Floor Plan - Type (4S) 190 TURNBULL AVE. Charleston Naval Base Charleston, SC

DWG DATE: 13 JAN 98 DWG NAME: ASB 190

### CHARLESTON NAVAL COMPLEX HOUSING

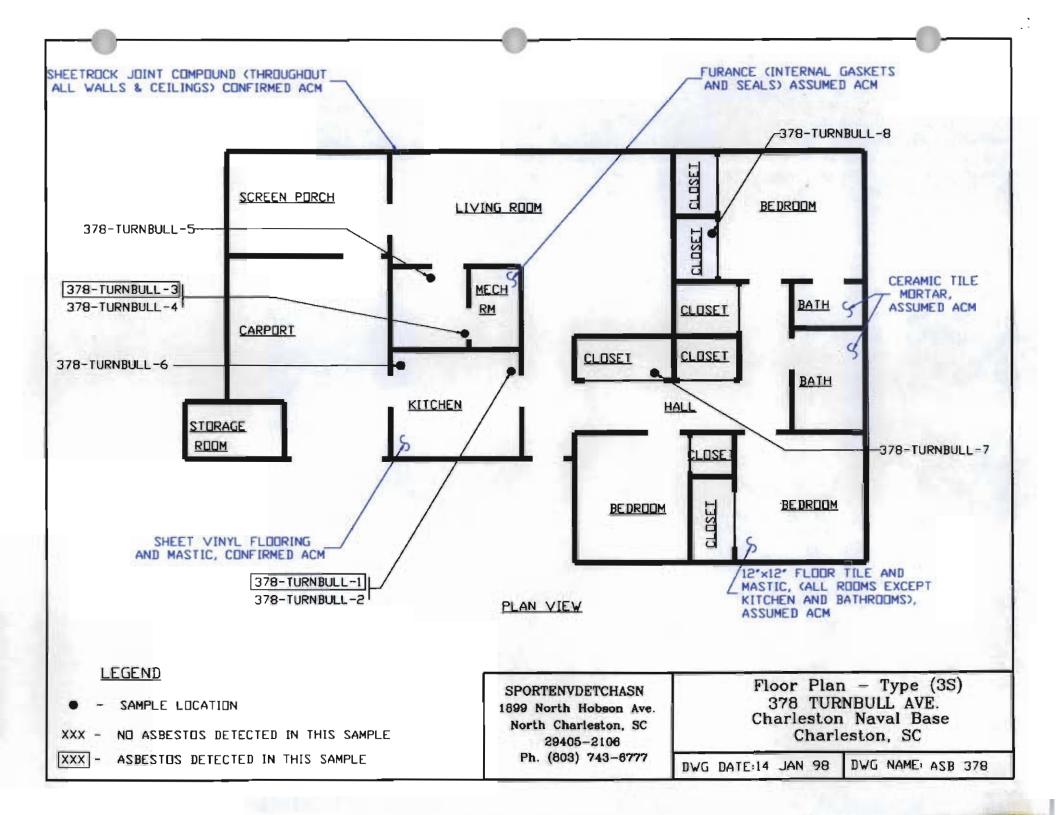
Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
190-TURNBULL-1	Y	MISC.	4649 sq. ft.	8	N	G	0	O&M	See general note # 1
190-TURNBULL-2	N	SHEETROCK							
170-TURNBULL-1	N	JOINT							
170-TURNBULL-2	N	COMPOUND							
170-TURNBULL-3	Y				-				
ASSUMED	Α	MISC., FLOOR TILE and MASTIC, 12" x 12", all rooms except kitchens and	1100 sq. ft.	8	N	G	0	O & M	
378-Tumbull-1 378-Tumbull-2 378-Tumbull-3 378-Tumbull-4 97-NW-7 97-NW-8	Y N Y N Y	bathrooms MISC., SHEET VINLY FLOORING and MASTIC, kitchens	176 sq. ft.	8	N	G	0	O & M	
ASSUMED	Α	TSI, FURNACE		The state of the s					See general note # 3
· ASSUMED	A	MISC., CERAMIC TILE MORTAR	284 sq. ft.	8	N	G	0	O & M	



#### ASBESTOS SURVEY BUILDING SUMMARY TABLE

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
190-TURNBULL-1	Y	MISC.	4649 sq. ft.	8	N	G	0	O & M	See general note # 1
190-TURNBULL-2	N	SHEETROCK			-				
170-TURNBULL-1	N	JOINT			Proposition				
170-TURNBULL-2	N	COMPOUND							
170-TURNBULL-3	Y								
ASSUMED	A	MISC., FLOOR TILE and MASTIC, 12" x 12",	1100 sq. ft.	8	N	G	0	O & M	
		all rooms except kitchens and bathrooms							
378-Turnbull-1	Y	MISC., SHEET	176 sq. ft.	8	N	G	0	O&M	
378-Turnbull-2	N	VINLY							
378-Turnbull-3	Y	FLOORING and							
378-Turnbull-4	N	MASTIC,							
97-NW-7	Y	kitchens							
97-NW-8	Y						<u> </u>		
ASSUMED	A	TS1, FURNACE							See general note # 3
ASSUMED	A	MISC., CERAMIC TILE MORTAR	284 sq. ft.	8	N	G	0	O&M	

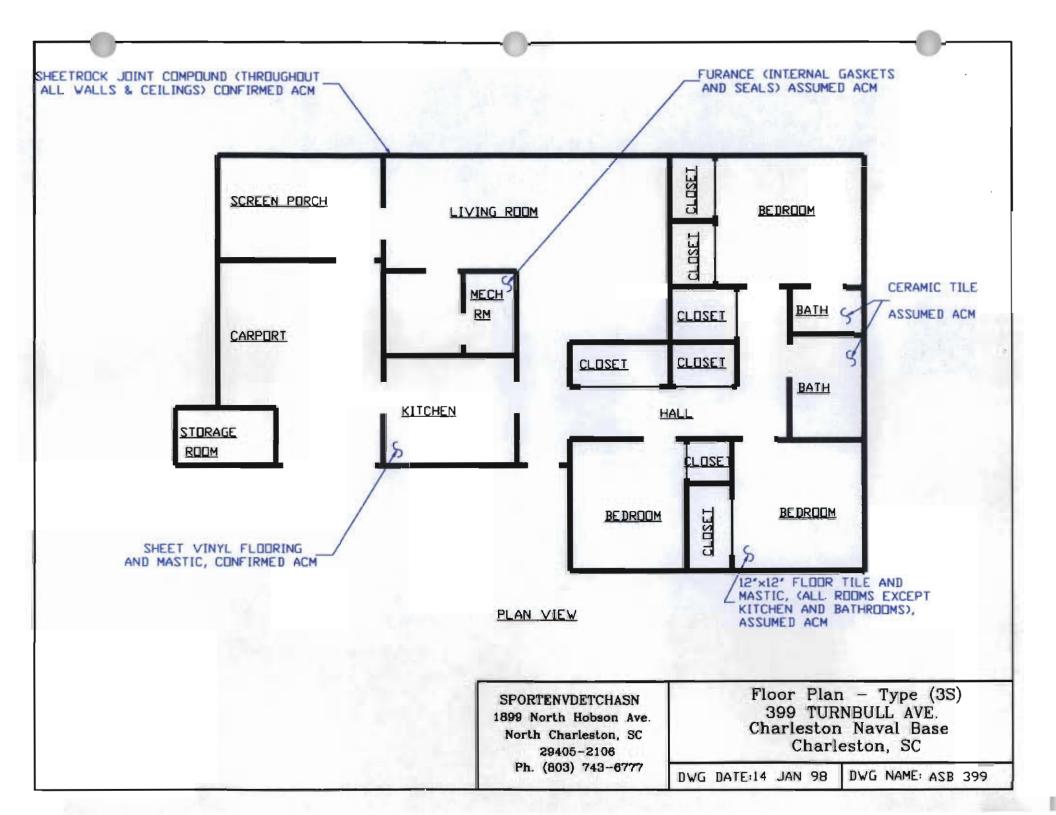


#### ASBESTOS SURVEY BUILDING SUMMARY TABLE

# CHARLESTON NAVAL COMPLEX HOUSING

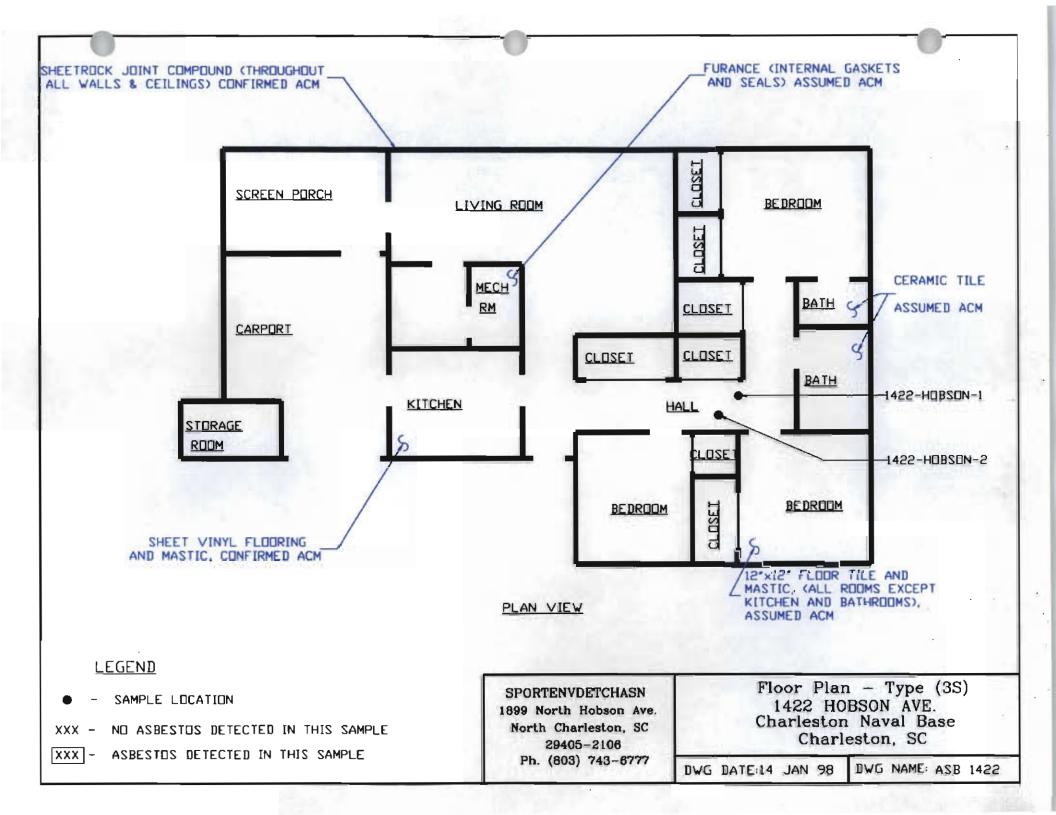
Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
190-TURNBULL-1	Y	MISC.	4649 sq. ft.	8	N	G	0	O & M	See general note # 1
190-TURNBULL-2	N	SHEETROCK			Į				
170-TURNBULL-1	N	JOINT		•					
170-TURNBULL-2	N	COMPOUND			1		į.		
170-TURNBULL-3	Y			}			<u> </u>		······································
ASSUMED	A	MISC., FLOOR TILE and MASTIC, 12" x 12",	1100 sq. ft.	8	N	G	0	O&M	
		all rooms except kitchens and bathrooms							
378-Turnbull-1 378-Turnbull-2 378-Turnbull-3 378-Turnbull-4 97-NW-7 97-NW-8	Y N Y N Y Y	MISC., SHEET VINLY FLOORING and MASTIC, kitchens	176 sq. ft.	8	N	G	0	O & M	
ASSUMED	A	TSI, FURNACE							See general note # 3
ASSUMED	A	MISC., CERAMIC TILE MORTAR	284 sq. ft.	8	N	G	0	O & M	

ABBREVIATIONS: ACM = Asbestos Containing Material (contains greater than 1% asbestos), Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet



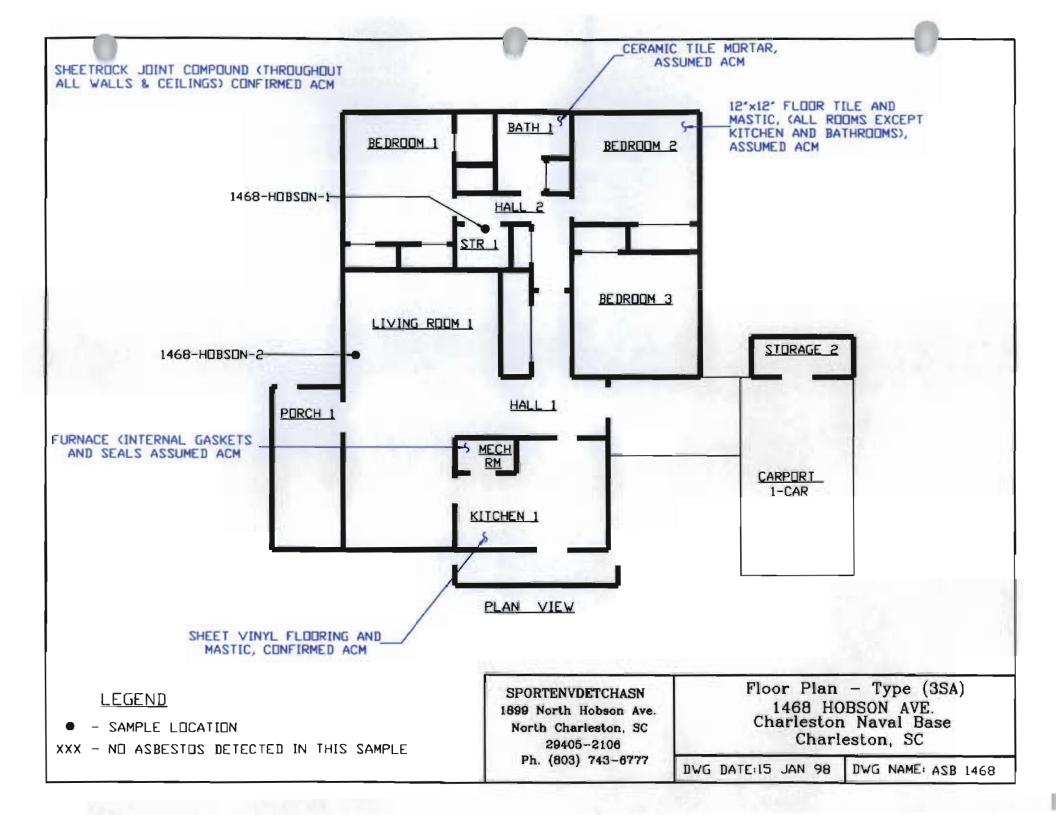
# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
190-TURNBULL-1	Y	MISC.	4649 sq. ft.	8	N	G	0	O&M	See general note # 1
190-TURNBULL-2	N	SHEETROCK							
170-TURNBULL-1	N	JOINT							
170-TURNBULL-2	N	COMPOUND							
170-TURNBULL-3	Y					_			
ASSUMED	A	MISC., FLOOR TILE and	1100 sq. ft.	8	N	G	0	O&M	
		MASTIC,					Ē		
		12" x 12",							
		all rooms except			Programme				
		kitchens and bathrooms							
378-Tumbull-1	Y	MISC., SHEET	176 sq. ft.	8	N	G	0	O&M	
378-Turnbull-2	N	VINLY							
378-Turnbull-3	Y	FLOORING and			1				
378-Turnbull-4	N	MASTIC,							
97-NW-7	Y	kitchens							
97-NW-8	Y								
ASSUMED	Α	TSJ,							See general note # 3
ACCIMED		FURNACE	204 6	-				0.015	
ASSUMED	A	MISC.,	284 sq. ft.	8	N	G	0	O&M	
		CERAMIC TILE MORTAR		-					
·····	<u> </u>	MURIAR		1	l		<u>;</u>	L	······································



# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
190-TURNBULL-1	Y	MISC.	3965 sq. ft.	8	N	G	0	O&M	See general note # 1
190-TURNBULL-2	N	SHEETROCK							
170-TURNBULL-1	N	JOINT							
170-TURNBULL-2	N	COMPOUND							
170-TURNBULL-3	Y			]					
ASSUMED	Α	MISC., FLOOR TILE and MASTIC, 12" x 12",	1100 sq. ft.	8	N	G	0	O & M	
		all rooms except kitchens and bathrooms							
378-Turnbull-1	Y	MISC., SHEET	176 sq. ft.	8	N	G	0	O & M	
378-Turnbull-2	N	VINLY			<b>i</b>				
378-Turnbull-3	Y	FLOORING and			<u> </u>				
378-Turnbull-4	N	MASTIC,							
97-NW-7	Y	kitchens			1			]	
97-NW-8	Y					···	<b>.</b>		
ASSUMED	A	TSI, FURNACE							See general note # 3
ASSUMED	A	MISC., CERAMIC TILE MORTAR	284 sq. ft.	8	N	G	0	O&M	



#### 1899 North Hobson Avenue

From (Project) Envir. E. SAMPLES TAKEN BY	ng. & Remediation Detachment Building 97 No.	AUY WAY Date	5/15/97
INSPECTOR JAMES	LEWIS DHECLICENSE NO 2/686	EXPIRATION DATE	8120/917
INSPECTOR	DHEC LICENSE NO	EXPIRATION DATE	·
NOTIFY OF RESULTS.	DHEC LICENSE NO  Jim Lewis  NAME Rovee Charbia PHONE NO 743-6482 E	x1230 / 3 9	
Reimquished to	WAC X Date 5-11-97		
Relinquished by Jam	Date 5-11-97  as Lewin Date 5/15/917		
Logged in by	Date		
(IDENTIFI	CATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)	<del></del>
Sample OSH No No	Location/Description	Asbestos Type (or None)	Analyst In:ttals
97 NW-!	CERAMIC TICE GROUT	NONE	100
Analyst(s)	Date 5-/6-97		
Results Logged	Date		

1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

From. (Project) Envir. E SAMPLES TAKEN BY	ng. & Remediation Detachment LICENSED INSPECTOR(S)	Building	97 NAVY	WAY	Date: <u>/ - 6</u>	<u>-98</u>
INSPECTOR LEW	15 JAMES E DHECLICE	ENSE NO	21686	EXPIRATION	DATE <u>8/4</u>	2/98
INSPECTOR MURRAS	H BRUCE DHECLICE	ense no 💪	216817	EXPIRATION	DATE <u>\$/2</u>	198
	NAME JAMES LEWS					
//	A Date					
Relinquished by Jan	nes Somi Date 1/	16/98	<u> </u>			
Logged in by	Date		<del></del>			
(IDENTIFI	ICATION IS DETERMINED BY POLARIZ	ZED LIGHT MIC	CROSCOPY AND D	DISPERSION STAIN	ING)	<del></del> -
Sample OSH No No.	Location/Descri	ription		Asbestos Typ (or None)		alysı uals
97 NAVY WAY-2	SHINGLE, WITTE					, ,
97 NAVY	BA CAULKING FROM B.	ATH # 3	2_	NONE		0.
WAY - 3				NONE NONE NONE	2 8	18
91 NAVY WAY-4	CAULKING FROM BAT	TH # 1				
7	<u> </u>			NONE	42	<i>.</i>
				·		
	•					
Analyst(s)	In & Date 1-6-98					
Analysi(s)	Date Date					
	<del></del>					

Results Logged

Date

1899 North Hobson Avenue

	Eng. & Remediation Detachment Building 97 NA LICENSED INSPECTOR(S).	UY WAY Date:	1-7-98
INSPECTOR JAME	s Lews DHEC LICENSE NO 21686	_ EXPIRATION DATE	8-20-78
INSPECTOR Reve	MURRAY DHEC LICENSE NO 21687	EXPIRATION DATE	8-20-91
NOTIFY OF RESULTS	NAME Berce MURAY PHONE NO. LXT.	234	
Relinquished to 1.	1. Smitto Dale 1-7-98		
Relinquished by	ver Journ Date 1/1/98		
Loggea in by	Date		
IDENTIF	TCATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)	
Sample OSH No No.	Location/Description	Asbestos Type (or None)	Anaiyst Initials
97-NW	BASERONAL MASTIC, (BEGE BASERONAN)		
- 5	KITESHAN	NONE	J. S.
-6	BASEBOARD MASTIC, (BIELL RASERLARD) BEDROOM # Z	(	018.
	PASSEDNES MASTEL, (BILLS BATTERS	NONE	1
- 7	SHEET UINGL FLOORENG, 3 LAYERS (KITCHEN)	CHRYSOTIFE	11.6
-8		CHRYSOTIFE  CHRYSOTIFE	111
	<u> </u>	7 0	1-0.72-
	<u> </u>		
Anaiysi(s)	And Date 1-7-98		
Analysi(s)	Date		
Results Logged	Date		

		g. & Remediation Detachment Building 170 Tun. ICENSED INSPECTOR(S)	Date s	-/15/97
	_	MURRAY DHEC LICENSE NO 21687	EXPIRATION DATE	8/21/9
		S LEWIS DHECLICENSE NO 21686		$I_{I}$ $I_{I}$
NOTIFY OF RESU	ULTS N	JAME Rove Charma PHONE NO 743-6482 Ex	a <del>230</del> 234	;-
Relinquished to	W	1 Sty Date 5-17-97		
Relinquished by	Jani	2 Lewer Date 5/15/917		
Logged in by	/ 	Date		
(ID	DENTIFIC	ATION IS DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING)	
11 . ' 1	OSH No	Location/Description	Asbestos Type (or None)	Analyst Initials
170 TURNBULL		LIVING ROOM SHEETMOCK	NONE	wo
170 TURNBULL -2		KITCHEN SHEETROCK / PUTTY	NON C-	we
170 TURNBUL -3	_	SHEETROCK W/TARE & MUD)	CHRYSOTILE	MT
170 70006:1	_	BATHMOOM #/ CENAMIK TICE GROUT	NONE	WAS
170 TUENBULL	_	BATHROOM # ? CERAMIC TILE GROUT MORTAR	NONE	Woz
170 TURNBULL _	_	BLORDOM # 3 CLOSE,  12" X12" FLOOK TICK	NONE	SON
TVENEUL -7	_	IL'Y 12" FLOOR TICK W/MASTIC	NONG	M
Analyst(s)  Analyst(s)	Kc	Date		

#### 1899 North Hobson Avenue

From. (Project) Envir. Eng. & SAMPLES TAKEN BY LICE)		TURNBULL AUE Date	1-6-48
INSPECTOR JAMES 1	DHEC LICENSE NO 21686	EXPIRATION DATE	5/20/98
	CKAV DHEC LICENSE NO 21687		•
	TE BRUCE MURRAY PHONENO 743	-6177	·
Reiinquished to	Bate		
Relinquished by James	Lewin Date 16/98		
Logged in by	Date		
(IDENTIFICATIO	ON IS DETERMINED BY POLARIZED LIGHT MICROSCOPY	( AND DISPERSION STAINING)	
Sample OSH No No	Location/Description	Asbestos Type (or None)	Anaiyst Initials
170 - TURNAUL RO	oof SHINGUE	NUNE	11.8.
	<u>-</u>		
			E
Analyst(s)	Date 1-6-98		
Analyse(s)	Date		
Results Logged	Date		

#### 1899 North Hobson Avenue

From. (Project) Envir. En SAMPLES TAKEN BY L	ig. & Remediation Detachment Building	190 TURNBUIL	_ Date _ 5/91
	Muzza 7 DHEC LICENSE NO 216	EXPIRATION	N DATE \$ /2//9>
INSPECTOR Jame	686 EXPIRATION	NDATE 8/00/87	
NOTIFY OF RESULTS	S Ciwil DHEC LICENSE NO 21  NAME Rovee Chardia PHONE NO 7.	43-6482 Ext. <del>230</del> ≥ 5 4	,
Relinquished to	LAUX Date 5-13-	<u> 57</u>	
	stein Date 5/15/97		
Logged in by	Date		
(IDENTIFIC	CATION IS DETERMINED BY POLARIZED LIGHT MICRO	OSCOPY AND DISPERSION STA	INING)
Sample OSH No. No.	Location/Description	Asbestos T	1 11
TOENSOL	LIVING Room		
-1	SHALTROCK (PUTTY)	CHRYS07	THE NOR
190 TURNBULL	KITCHEN. SHELMOCK PUTTY	NONE	- NAZ
190 TURNOCIC	BEDROOM #3 12" X 12" FLOOR TILE W/MASS	me NON	e lur
190	BATHEOUM #1	NON (	
TUENBUIL -	CERAMIC TICE GROUT	NON	- WT
Analyst(s)  Analyst(s)  Results Logged	Date 5-16-97  Date		1

#### 1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

From: (Project) Envir. Eng. & Remediation	Detachment Building /90	TURNBULL Date:	1-6-98
SAMPLES TAKEN BY LICENSED INSPEC	.10 <b>k</b> (5)		
INSPECTOR RURCE MURRAY	_ DHEC LICENSE NO $\frac{2/69}{}$	EXPIRATION DATE	: 8/24/98
INSPECTOR JAMES LEWIS	_ DHEC LICENSE NO _2/68	EXPIRATION DATE	8/20/90
NOTIFY OF RESULTS. NAME JAMES	LEWS PHONE NO 3-	61111	
Relinquished to J. J. Smith	Date <u>1-6-98</u>	_	
Relinquished by fames Some	Date <u>1/6/98</u>	_	
Logged in by	Date	<del>-</del>	
(IDENTIFICATION IS DETERMI	NED BY POLARIZED LIGHT MICROSCO	PPY AND DISPERSION STAINING)	
Sample OSH No No.	Location/Description	Asbestos Type (or None)	Anaiyst Initials
190 -Turnenia Roof SHI	UG LE	NONE	0.11
		1	7
	<u> </u>		
			}
	<del></del>		
		<del></del>	
1 1 M			
Analysi(s) Date 1.	6-98		
Analyst(s) Date			

Results Logged

Date

	r. Eng. & Remediation Detachment BY LICENSED INSPECTOR(S)	Building 378	TURNBULL AVE	Date: 110198
INSPECTOR JA	MES LEWIS DHECLICE	ENSE NO <u>21686</u>	EXPIRATION D	ATE 8/20/98
INSPECTOR _BRO	ICE MURRAY DHECLICE	NSE NO 21687	EXPIRATION D	ATE 8/2495
NOTIFY OF RESUL	TS NAME BRUCE MURRA	<b>У</b> НОМЕ NO		
Relinquished to		•		
Relinquished by	ims & Puri Date //	1/98		
Logged in by	Date			
(IDÉN	TIFICATION IS DETERMINED BY POLARIZ	ED LIGHT VIICROSCOPY	AND DISPERSION STAININ	(G)
Sample OSF No No.	l ocation/Desc	приоп	Asbestos Type (or None)	Analyst   Initials
378 JUENEUL	SHEET WIN IL FLOORIN	,		
-1	SHET VINTL FLORING	,	CHRYSOTIL	E J.S.S.
378 .TURNBULL -Z	YELL WIRROW PATIERNS,	•	CHRYSOTIL (VEI) NONE	011
378 TUENOU.	SHEET VINGE FLOORING,	BUTTOM LAMER	,,,,,,,	9
-3	SHLET VINAL FLOWEING, TOP	(4442 (444)	CHRYSotiF	€ 1.2.8.
318 -TURNEV-C	SHELL VINAL FEWERING, TOP	(V+1)	NONE	111
378	BASEBOALD MASTIC, FRA.	BEEL BASEROARS	,	
-TURNBULC	IN KITCHEN	,	NONE	1.1.8.
378 -TURNBUK( -6			NONE	018
378 -TURNBUL	BASE BOARD MASTIC, FA	ZEM BREWN BASEBOT	20	
318		<del></del>	NONE	J. S.
TURNSUUC 8			NONE	1.1.5.
Analyst(s)	1. South Date 1-7-98			
Analyst(s)	Date			
Results Logged	Date			

From (Project)	Envir. En	g. & Remediation	Detachment	Building	1422	HOBSON	<u> </u>	Date _	4/8/97
SHAME LES THE	CLIV D I L	ICENSED INSPEC CHARPIA	or Ordio)						,
INSPECTOR			DHEC LICI						,
	ESULTS, I	NAME Roves Ch	BEUCE MUCE	PHONE NO	743-6482	Ext <del>230 -</del>	234	_	
							_ `		
		CATION IS DETERMI				AND DISPE	RSION STAIN!	NG)	
Sample No	OSH No.		Location/Desc	cription		1	Asbestos Type (or None)	e	Analyst Initials
1422 HOBSON-1		ATTIC IN	ISUCATION	v		1	IONE		111
1422		ATTIC POL	R /HATC	.H			ONE		
HORSON-Z		FIBER BO	ARD BACK	(IN G-		1	ONE		111.
			$\langle i \rangle$						
		~ \W	170						
	<0	K							
	N J	.()	V .	19	10, V	Ý V			
			KWY	NERER	Ear,				
		7	,	,					
Analyst(s)	1. 0	Date 4	<u> 8/</u> 97					<del>-, ·- , ·- *</del>	
Results Logged _		Date							

om: (Project	t) <mark>Envir. E</mark> AKEN BY	ng. & Remediatio LICENSED INSPE	n Detachment B	uılding <u>/</u>	468 H	BSON_	Date _	4/8/97
			DHEC LICENSI	E NO <u>2</u>	1680	_ EXPIRATION I	DATE.	8/21/97
OTIFY OF	RESULTS.	NAME Rovee C	DHEC LICENSI PHECHAMINATION PHO	ONE NO	743-6482 Ex	1.230 -234		_
			Date					
linguished b	y		Date					
gged in by			Date					
	(IDENTIF	CATION IS DETERM	INED BY POLARIZED I	JGHT MICR	OSCOPY AND	DISPERSION STAINI	NG)	
Sample No	OSH No		Location/Description	on		Asbestos Typ (or None)	e	Analyst Initials
468		4						
2850 W-1	<del></del>	ATTIC -	INSULATION	1		NONE	<del></del>	J.J. S.
768 = 1851 N-2		LOOFING	ENSULATION SHINGLE			NONE NONE	V	111
				· ·				
		<u> </u>	-	<del></del>			<del></del>	
		<u> </u>			•			
								<u> </u>
			······································	· <del>=</del>		<del>~ - · · · · · · · · · · · · · · · · · · </del>	-	
			<u>-</u>					
	<del></del>	<del></del>				<del></del>		
vst(e) A	11	L H Date L	4/9/97					
vsk(s)	7 " 12	Date Date	<del>/                                    </del>					
.lts Logged		Date						

# ASBESTOS SURVEY 774 and 778 MARINE AVENUE, BUILDING # 765 CHARLESTON NAVAL COMPLEX CHARLESTON, S.C.

#### 1. **DESCRIPTION:**

Building 765 is a duplex consisting of 774 Marine Avenue and 778 Marine Avenue. Each unit has brick veneer exterior and asphalt shingled roof. Each unit is approximately 1808 square feet (total area including carport and storage). Year of construction was 1963. Both units are similar in construction and many of the building materials are of the same homogeneous group. 774 and 778 Marine Avenue are also similar to the "S" and "J" type units. The years of construction are all 1963 and 1965 and many of the materials used in building 765 are of the same homogeneous group as those used in the "S" and "J" type units.

#### 2. FINDINGS:

Six homogeneous sampling areas were identified as possible Asbestos Containing Material (ACM). Of the 6 homogeneous sampling areas, 3 were confirmed to contain asbestos, 1 was assumed to contain asbestos, and 2 were found to be asbestos free.

#### CONFIRMED ACM

- 1. FLOOR TILE MASTIC, (for 12" x 12" floor tile) located in all rooms except bathrooms
- 2. SHEET VINYL FLOORING with MASTIC, bathrooms # 1 and # 2
- 3. SHEETROCK JOINT COMPOUND, walls and ceilings throughout house, see General Note 1

#### **ASSUMED ACM**

1. FLOOR TILE, 12" x 12", located in all rooms except bathrooms

#### ASBESTOS FREE

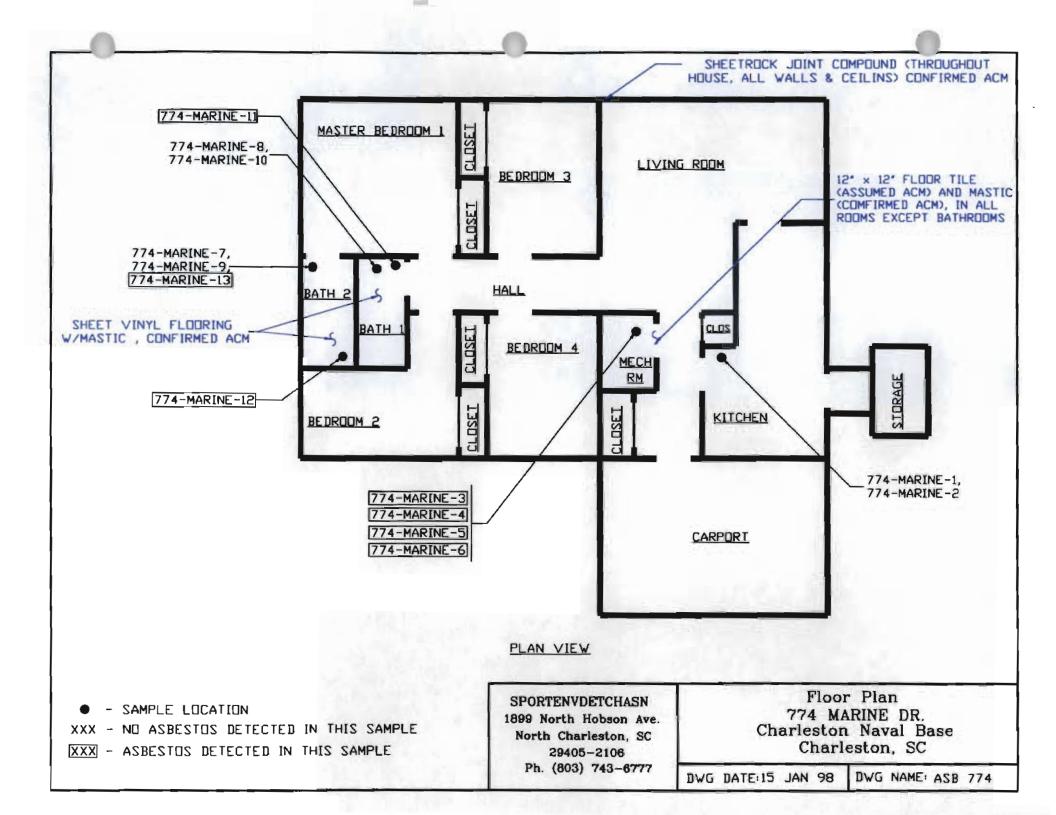
- 1. WALLPAPER, located in kitchen
- 2. BASEBOARD MASTIC, located in bathrooms

#### ASBESTOS SURVEY BUILDING SUMMARY TABLE

### CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
774-MAR-3 774-MAR-4 774-MAR-5 774-MAR-6	Y Y Y Y	MISC. FLOOR TILE MASTIC, for 12" x 12" floor tile, all rooms except bath rooms	1432 sq. ft.	8	N	G	<1	Repair Damage, O & M	2 sq. ft. damaged near water heater Note: mastic tested positive, tile assumed positive
ASSUMED	A	MISC. FLOOR TILE, 12" x 12"	1432 sq. ft.	8	N	G	<	Repair Damage, O & M	2 sq. ft. damaged near water heater Note: mastic tested positive, tile assumed positive
778-MARINE-10 778-MARINE-11 778-MARINE-12	Y Y Y	MISC. SHEETROCK JOINT COMPOUND, walls and ceilings throughout house	5632 sq. ft.	8	N	G	0	O & M	See General Note 1
774-MARINE-11 774-MARINE-12 774-MARINE-13	Y Y Y	SHEET VINYL FLOORING and MASTIC, bathrooms # 1 and #2	40 sq. ft.	8	N	G	0	O & M	

ABBREVIATIONS: HMG.NO = Homogeneous Area Number, ACM = Asbestos Containing Material, Y = Yes, N = No, A = Assumed, % D = Percent Damaged, G = Good, D = Damaged, SD = Significantly Damaged, O & M = Operations, Maintenance, and Repair Program, LF = Linear Feet, Sq. Ft. = square feet



#### 1899 North Hobson Avenue

From: (Project)	Envir. En	g. & Remediation I	Detachment	Building	774 /	MARINE.	Date _	5-14/97
		Mucany		ISE NO	2/687	EXPI	RATION DATE	8/21/9-
		s Lewis	DHEC LICEN					
		NAME Revce Cha	MUERAY					<del></del>
Relinquished to	J. mmy	1. touth	Date 5	12-9	>			
Relinquished	y fan	- Lui	Date 5//	2/4/	7			
Logged in by $\underline{\nu}$	/	_	Date					
	(IDENTIFIC	CATION IS DETERMIN	ED BY POLARIZE	D LIGHT \	IICROSCOPY	AND DISPERS	ION STAINING)	
Sample No.	OSH No		Location/Descri	ption		4	bestos Type (or None)	Analyst Initials
274-MAX -/		KITCHEN, WALL PAPER	boeser.			1 ~	ONE	nor
774-MAQ -2		KITCHEN, WALLPAPER L	SOMBER			NO	$\mathcal{N} \leftarrow$	wh
774-MAR -3	_	MECHT. 2001 FROM PHILLS				BLA	CK CHRYSO	NOT
774-MAR		L				1	K TIC CHRYS	nazi
>7-1-Mar	_	MECH-120cm FLOOR TIL	•	FROM	ABOUE	<u>:</u>	RYSOTILE	
774-MAR -6	~	j.		,			Zy50TILE	
774-MAR	•	RATHAGON # 6	ot N					va
774-M4R -8	-	J			1	7	ONE ONE	1797
Analyst(s)		<del></del>	<u>-13-</u> 97				,	
Anaiyst(s)	<del>/</del>	Date						
Results Logged		Date						

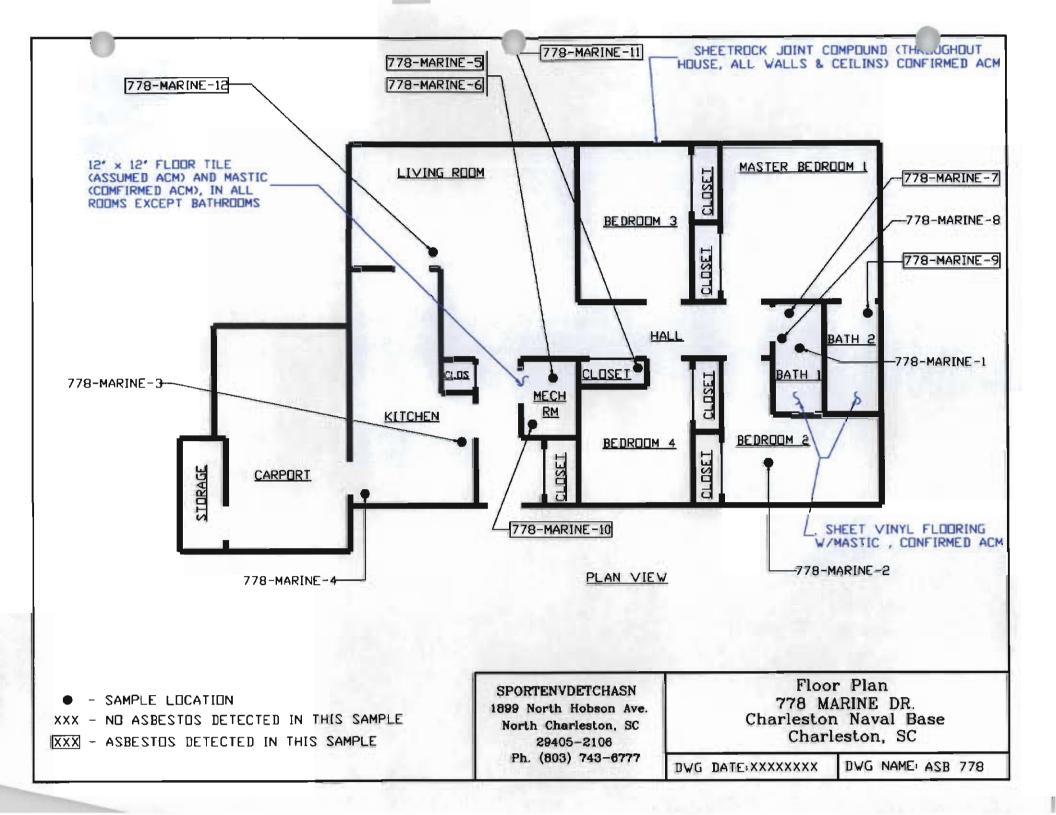
1899 North Hobson Avenue

From: (Project) <b>Envir. Eng. &amp; Rem</b> SAMPLES TAKEN BY LICENSED	nediation Detachment Building 7>7 M.  DINSPECTOR(S)	ARIVE Date:	5/12/97
INSPECTOR BRUK MURRE	DHEC LICENSE NO 2/687	_ EXPIRATION DATE	8/21/97
	DHEC LICENSE NO 21686		
NOTIFY OF RESULTS. NAME!	Rovce Charoia PHONE NO 743-6482 E	xt. 230	
	In 1/2 Date 5-12-97		
Relinquished by Janus L	euro Dale 5/12/91)		
Logged in by	Date		
(IDENTIFICATION IS	DETERMINED BY POLARIZED LIGHT MICROSCOPY AN	D DISPERSION STAINING	<del></del>
Sample OSH No No.	Location/Description	Asbestos Type (or None)	Analyst Initials
	MOSM #2 (ATTACHES) TO WALLED MARTIC ONLY)	NONE	NOT
174 BATTH	COM # (	NONE	W
Analyst(s)  Analyst(s)	Date <u>5-13-</u> 9)		
Results ilogged	Date		

From. (Project)	Envir. Eng. & R	emediation Detachment	Building 774	+ MARINE	Aue Date:	1-14-9.
	_	ED INSPECTOR(S).		_		<b></b>
INSPECTOR _	BRUCE 1	URKAY DHECLIC	CENSE NO 21681	EXPIR	ATION DATE	8-50-7
INSPECTOR _		DHEC LIC	CENSE NO	EXPIR	ATION DATE	
NOTIFY OF RE	ESULTS NAME	BRUE MURKAY	PHONE NOE	(x1. 234		
Relinquished to	W.E.m	ay Date /	1/14/98	_		
Relinquished by	Ku-DI	Date	1-14-98	_		
Logged in by		Date		_		
	(IDENTIFICATION	IS DETERMINED BY POLAR			ON STAINING)	
Sample No	OSH No	Location/De	scription		estos Type or None)	Analyst Initials
774 MARINE	Z.4*	ET WINTE FLO	OR IN IL ZLAYA	XUS		
-11	BA	THEODY -	Bottom LAYER,	-cHry	sotile	WEM
-12		SAME THE S  BATTIRECAL #  2 LAY  (BOHO)	2 LAYERS	S	, ,	
-12	· ¥	2 42	<u>(BOTTON)-A</u> VeRS	HAMA CHICYS	0//Le	Wem
-13		Botte	m LAYER	CHICL	SOTILO	wen
		<u> </u>				
					- <del></del>	
		<u></u>				
			<del></del> -			
	<u> </u>			<u></u>		<u></u> .
		,				
Analyst(s) <u>AU.</u>	E may	Date 1/14/98				
Analyst(s)		Date				
Results Logged		Date				

# CHARLESTON NAVAL COMPLEX HOUSING

Sample No.	ACM Y/N /A	Material Description / LOCATION	Quantity	AHERA CATEGORY	FRIABLE	Cond	% D	Recommended Action	Comments
774-MAR-3 774-MAR-4 774-MAR-5 774-MAR-6	Y Y Y Y	MISC. FLOOR TILE, for 12" x 12" floor tile, all rooms except bath rooms	1432 sq. ft.	8	N	G	<1	Repair Damage, O & M	2 sq. ft. damaged near water heater Note: mastic tested positive, tile assumed positive
ASSUMED	A	MISC. FLOOR TILE, 12" x 12"	1432 sq. ft.	8	N	G	<1	Repair Damage, O & M	2 sq. ft. damaged near water heater Note: mastic tested positive, tile assumed positive
778-MARINE-7 778-MARINE-8 778-MARINE-9	Y N Y	SHEET VINYL FLOORING and MASTIC, bathrooms # 1 and #2	40 sq. ft.	8	N	G	0	O&M	
778-MARINE-10 778-MARINE-11 778-MARINE-12	Y Y Y	MISC. SHEETROCK JOINT COMPOUND, walls and ceilings throughout house	5632 sq. ft.	8	N	G	0	O & M	See General Note 1



#### 1899 North Hobson Avenue

	10020100 1001111011110	• •	con,
From: (Project) Envir. I SAMPLES TAKEN BY	Eng. & Remediation Detachment Building 778 - LICENSED INSPECTOR(S)	MARINE AUE Date:	<u> 5/12/</u> 9>
	& MURRAT DHECLICENSE NO 2168		
INSPECTOR	PHONE NO. 743-64	ÉXPIRATION DATE	8/20/97
NOTIFY OF RESULTS	NAME Royce Charpia PHONE NO 743-64	182 Ext. <del>230</del>	
Relinquished to	1 Ant Date 5-12-97		
Relinquished by fair.	Date 5/12/97	_	
Logged in by	Date	-	
(IDENTI	FICATION IS DETERMINED BY POLARIZED LIGHT MICROSCO	PY AND DISPERSION STAINING)	7
Sample OSH No No.	Location/Description	Asbestos Type (or None)	Anaiyst Imtials
773 -MAE-1	BIGUN CEILNG MATERIAL		111
	BROWN CEILING MATERIAL	NONE	MUST
775 -MAR-2 -	BEOND CEILING MATERIAL	NONE	WR
718	12" × 12" FLOOR TILE		. II
-MAR-3	w/ MASTIC	NONE	NOT
778	12" X 12" FLUE TILE		
· m4e-4	w/mastic	NONE	W
			+
	1		
Analysi(s)	and Date 5-13-9)		
Analyst(s)	Date		
Results Logged	Date		

#### 1899 North Hobson Avenue North Charleston, South Carolina 29405-2106 ASBESTOS IDENTIFICATION

INSPECTOR _	Bruce MURCHY	DHEC LICENSE NO	0 21687	_ EXPIRATION DATE	
INSPECTOR _		DHEC LICENSE NO	o	EXPIRATION DATE	
NOTIFY OF R	ESULTS. NAME Brus	MURRHY PHONE	ENO <u>∉x r.</u> Z.	3 <i>+</i>	
Relinquished to	I. J. Smith	Date/ - / 3	1-98		
Relinquished by	Rudlly	Date / - 13 ·	98		
Logged in by		Date			
	(IDENTIFICATION IS DETERM		T MICROSCOPY AND	DISPERSION STAINING)	
Sample No	OSH No	Location/Description		Asbestos Type (or None)	A
778-		COR TILE W/MA		TILE NOT Deservises	
MACINE -5	FROM MECH.	ROOM NEAR WAT	اند	CHRYSOTILE	u
6		8 mas 7	101	# TILE NOT DETERMINED CHRYSOTILE	res
	SHEET UIN'YOUR BATHROOM	FLOORING 2, L	AYERS	,	
-7	<i>X41///2007-1</i>	Bottom	LAYER -	ChrysoTile	W
- 8	1	LAYER	$\downarrow$	NoNe	Лe
-9		AYERS BOTH	<del></del>	CHRYSOTILE	لعام
- 10	SHEETROLF C	ORED SAMPLE FROM	M CORNER,	CHRYSGTILE	برواد
~ //	SHEATROCK, CORNER = /TA	CORED SAMPLE F.	CICSAT	CHRYSOTILE	rue.
		MUD FROM BEH	ind		
-12		R (LIUING RUC	5m )	ChrysoTile	res

ON The BASIS OF PLM



and Environmental Control



#### ASBESTOS ABATEMENT LICENSE

No. 22218

This Certifies that

Bandy & Adkins 251/02/6161 Department Of The Navy

has satisfactorily completed the training required by South Carolina Regulation No. 61-86.1 and the EPA Model Accreditation Plan, 40 CFR 763 Subpart E Appendix C, for the category of

Consultant/Building Inspector

The holder of this license shall comply with all the requirements of said Regulation.

This license is not transferable to any other licensee or company and shall expire one year from 04/23/97

05/22/97

ORIGINAL

John E. Hursey, Director

Program Development & Support Division

Bureau of Air Quality



#### ASBESTOS ABATEMENT LICENSE



No. 21680 This Certifies that

Doyce B Charpia 247/11/0264

Department Of The Navy
has satisfactorily completed the training required by South Carolina Regulation No. 61-86.1 and the EPA Model Accreditation Plan, 40 CFR 763 Subpart E Appendix C, for the category of

Consultant/Building Inspector

The holder of this license shall comply with all the requirements of said Regulation.

This license is not transferable to any other licensee or company and shall expire one year from 08/20/97

08/21/97

**ORIGINAL** 

Hursey, Director

Program Development & Support Division

Bureau of Air Quality





### ASBESTOS ABATEMENT LICENSE No. 21682

This Certifies that

Connie Drum

249/90/8360

Department Of The Navy

has satisfactorily completed the training required by South Carolina Regulation No. 61-86 1 and the EPA Model Accreditation Plan, 40 CFR 763 Subpart E Appendix C, for the category of

Consultant/Building Anspector

The holder of this license shall comply with all the requirements of said Regulation.

This license is not transferable to any other licensee or company and shall expire one year from 05/20/97

09/15/97

**ORIGINAL** 

Who E Hursey, Director

Program Development & Support Division Bureau of Air Quality



#### ASBESTOS ABATEMENT LICENSE



No. 21686 This Certifies that

James & Lewis 247/88/9370

Department Of The Navy
has satisfactorily completed the training required by South Carolina Regulation No. 61-86.1 and the EPA Model Accreditation
Plan, 40 CFR 763 Subpart E Appendix C, for the category of

Consultant/Building Inspector

The holder of this license shall comply with all the requirements of said Regulation.

This license is not transferable to any other licensee or company and shall expire one year from 08/20/97

08/21/97

ORIGINAL

Program Development & Support Division

Bureau of Air Quality



#### ASBESTOS ABATEMENT LICENSE

No. 21687 This Certifies that

Bruce D Murray 248/17/**22**65

Department Of The Navy
has satisfactorily completed the training required by South Carolina Regulation No. 61-86.1 and the EPA Model Accreditation Plan, 40 CFR 763 Subpart E Appendix C, for the category of

Consultant/Building Inspector

The holder of this license shall comply with all the requirements of said Regulation.

This license is not transferable to any other licensee or company and shall expire one year from 08/20/97

08/21/97

**ORIGINAL** 

John E. Hursey, Director

Program Development & Support Division

Bureau of Air Quality





No. 22216 This Certifies that John H Wilder

251/94/5862

Department Of The Navy
has satisfactorily completed the training required by South Carolina Regulation No. 61-86.1 and the EPA Model Accreditation Plan, 40 CFR 763 Subpart E Appendix C, for the category of

Consultant/Building Inspector

The holder of this license shall comply with all the requirements of said Regulation.

This license is not transferable to any other licensee or company and shall expire one year from 04/23/97

05/22/97

ORIGINAL

Program Development & Support Division

Bureau of Air Quality